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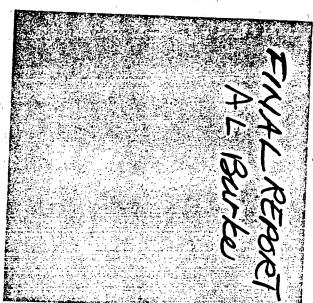
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FINAL REPORT - BUILDING 8

ITT GENERAL CONTROLS/AEROSPACE CONTROLS FACILITY

BURBANK/GLENDALE, CALIFORNIA



August 1989

DRAFT

Prepared for:

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TABLE OF CONTENTS

Execu	utive Summary	1
1.0	Introduction	2
2.0	Description of Facility	3
3.0	Previous Work 3.1 Phase I 3.2 Phase II 3.3 Phase III 3.4 Phase IV 3.5 Phase V	4 4 4 4 5 5
4.0	Summary of Regulatory Consideration	. 7
5.0	Health and Safety Issues	8
6.0	Remediation Alternatives	9
7.0	Project Organization	10
8.0	Summary of Workplan	11
9.0	Modifications to the Workplan	13
10.0	Methodology	15
	10.1 Decontamination Procedures	15
	10.2 Sample Procedures	16
11.0	Verification	17

List of Appendices

Appendix A	-	Boring Logs of Deep Samples
Appendix B	•	Sump Closure Plans
Appendix C	-	As-Received Laboratory Analyses
Appendix D	-	Chain-of-Custody Forms
Appendix E	-	Results of Waste Pile Sampling
Appendix F	•	Backfill Plan
Appendix G	-	Compaction Report
Appendix H	• • •	Hazardous Waste Manifests
Appendix I	•	Results of Verification Analyses

(ALB 87-07-0006)

EXECUTIVE SUMMARY

A. L. Burke Engineers, Inc. was asked by ITT General Controls Division to undertake a characterization investigation and to prepare a remediation workplan for Building 8 of their facility located at 811 Allen Avenue, Glendale, California; to define the limits of areas affected by levels of Polychlorinated Biphenyls (PCBs) which had accumulated over the years, and to reduce any concentrations of PCBs to acceptable levels. Pydraul, a hydraulic fluid containing PCBs, had been used in ITT's die-cast operations in Building 8. Over the years of operation, line ruptures, spills and other breakdowns had caused oil to be deposited on the floor, walls and overhead structures.

The characterization study, consisting of a series of five sampling programs, was begun in June, 1987 and was completed in August, 1988. Results of these sampling programs indicated the presence of PCB's in the building structure and concrete floor.

Using the sample results as a basis, a remediation workplan was prepared for decontamination and demolition of the building.

A. L. Burke Engineers, Inc. was retained by ITT to implement the remedial workplan. Specific decontamination and demolition tasks were subcontracted to Environmental Investigation and Action of Corona, California.

After completion of a training program for remediation personnel and an employee awareness program for ITT personnel, remediation was begun in November, 1988. The scope of remediation was substantially expanded because of increased disposal requirements of structural materials and the discovery of larger quarters of affected concrete and soil. Remediation was completed in June 1989, including grading and compaction of the site.

Interim and final verification samples confirmed that the concentrations of PCBs had been reduced below the action limits of 10 ug/100 cm² for surfaces and 50 mg/kg for solids. This area will be paved and converted into a parking lot as part of the plant-wide renovation being currently conducted by ITT.

1.0 INTRODUCTION

A. L. Burke Engineers, Inc. was asked by ITT General Controls Division to undertake a characterization investigation and to prepare a remediation workplan for Building 8 at their facility located at 811 Allen Avenue, Glendale, California; to define the limits of areas affected by levels of Polychlorinated Biphenyls (PCBs) which had accumulated over the years, and to reduce any concentrations of PCBs to acceptable levels.

Building 8 was one of sixteen buildings forming the ITT General and Aerospace Controls Complex. It was of metal-frame construction with a sheet-metal roof and concrete floor, and was used for foundry (die-cast) operations. Die-cast operations ceased in June, 1986, and the building was no longer used. The floors were covered with a layer of varying thickness of oil, much of which contained PCBs. There was a thin layer of oil on the walls and fixtures as the result of many years of operation. Also, PCBs had penetrated the concrete floor of the building.

This report details the results of the characterization investigation, the remediation workplan and the regulatory considerations which were incorporated into the plan, health and safety aspects of the work, a description of the decontamination and demolition procedures and modifications to the workplan made necessary by the discovery of additional affected areas as the work progressed.

2.0 DESCRIPTION OF FACILITY

The site, known as Building 8, is on the property of ITT General Controls Corporation located at 801 Allen Avenue on the border of the cities of Glendale and Burbank (Figure 1). Building 8, constructed in 1951, was used for foundry (die-cast) operations. The configuration of the property is shown in Drawing 87-07-0006-D-05 (See fold-out attached to this report.) A floor plan of Building 8 is shown in Drawing 87-07-0006-D-02 (see fold-out). This figure also shows the subsurface sample locations. The building was a metal-frame construction, with a sheet metal roof and concrete floor.

When the work began there were no existing drawings of the building structures, machine foundations (pits), sumps or underground piping. Only an old floor plan was available.

The building consisted of four main rooms with adjacent locker and restrooms. The largest room, the Machine Room, was 160 feet long by 100 feet wide. This room contained 23 machine pits, several sumps and two electrical panels. The machine pits were solid concrete, each approximately 5 to 8 feet wide and 20 feet long, and varied from 24 to 42 inches in depth. One pit was reinforced with #4 rebar, all others were not reinforced. The floor slab covered the pits, with remains of anchor bolts penetrating the slab. Many of the pits had an additional raised layer of concrete over the floor slab, making in effect, three layers of concrete with no sealant between them. During demolition, oil was discovered trapped between these layers. This oil had spread into the surrounding soil.

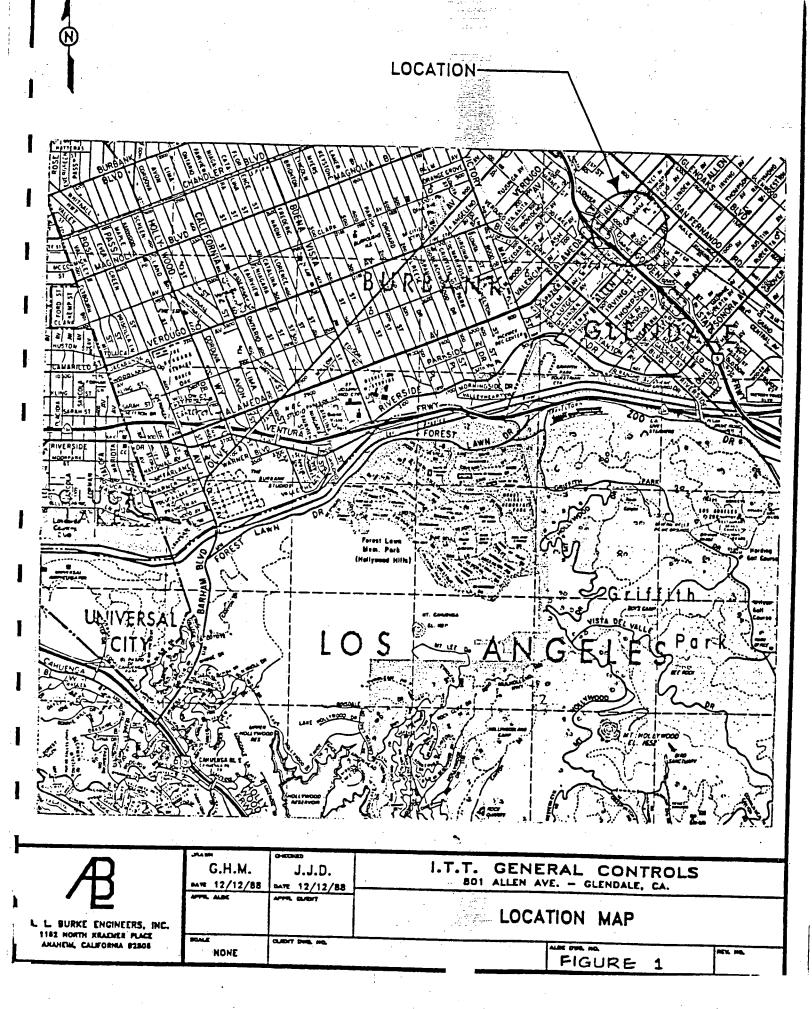
The depth of the pits and the successive layers of concrete was not known before demolition started. After demolition started, underground oil lines, which penetrated through the floor slab into the underlying soil, were found. These pipes connected each row of pits to a sump on the east side of the room. These lines showed evidence of rupture and other damage, as well as older repairs.

The sumps in the Machine Room varied in length but were all approximately 4 feet wide and 4 feet deep.

The Tool and Press Rooms, located on the east and north sides of the Machine Room, respectively, were both 35 feet wide and 100 feet long. Each had a small enclosed office located inside the room. Both offices had floor tile that contained asbestos which required special handling. Both rooms had a 4-inch floor slab; the Tool Room also had underground pipes and sumps.

The smallest room was the Vault Room, a 40 by 25-foot concrete structure that was built separately onto the west side of the Machine Room. Demonstron of this room was not included in this project's scope of work, since the characterization results showed that only the shelving used for storage of castings was affected by PCBs.

In addition to these rooms, the building also contained a dock area, approximately 30 feet wide and 60 feet long located on the northwest corner. This dock was demolished as part of this project.



3.0 PREVIOUS WORK

As noted previously, a characterization investigation was initiated in June, 1987. This program consisted of five phases of sampling, which are described below.

3.1 PHASE I

The first phase consisted of bulk, wipe and core samples taken in June and July, 1987.

These wipe samples showed significant levels of PCB. Concentrations ranged from 3200 micrograms per wipe to 1.0 micrograms per wipe. The highest concentration of PCBs detected in a wipe sample was found near pit #8. Significant levels of PCBs were also found to be present on the sections of the overhead crane being stored temporarily on the Machine Room floor.

The concrete core samples also showed widespread levels of PCBs. The samples ranged in concentrations up to 51,000 mg/kg. The presence of PCBs reached a depth of two inches to four inches. The highest concentration of PCB found in a core was found in machine pit #5. The cores from the sumps all showed PCBs with the highest concentration of 1100 ppm, found in the clarifier sumps along the south wall.

The bulk samples also showed high levels of PCBs. Concentrations ranged up to 18,000 mg/kg, with the highest concentration coming from Pit #13. It is suspected that the material taken in the bulk samples represented oxidized residues of the machine oil containing PCBs used in previous operations.

The bulk liquid sample taken from the sump outside of Building 8 showed a PCB concentration of 140 ppm.

3.2 PHASE II

The second sampling phase was conducted in September, 1987 and consisted of wipe, core and bulk samples taken from areas not previously covered.

The analytical results of the concrete core samples taken corroborated the findings of the initial investigation. However, the levels of PCBs tapered off with depth; maximum depth was approximately 5 inches. Levels ranged up to 6100 mg/kg.

The bulk samples also showed high levels of PCBs. Concentrations ranged up to 18,000 mg/kg, with the highest concentration coming from Pit #13. The bulk liquid sample taken from the sump outside of Building 8 also showed levels of PCBs with a concentration of 140 mg/kg. The soil samples showed no significant levels of PCBs.

The wipe sample results in the Vault Room shelves and on some of the overhead beams in the Machine Room, showed significant levels of PCBs; all samples in the Vault Room exceeded the EPA guidelines of 10 ug/100cm² for semi-porous indoor surfaces (40 CFR 761, Polychlorinated Biphenyl Spill Cleanup Policy, April 2, 1987). In the Machine Room, all but two of the sample equaled or exceeded the EPA limit. However, the highwall samples in the Machine Room were all below 10 ug/wipe, indicating no significant levels of PCBs.

Only two Aroclors of PCBs were found, 1248 and 1260. These differences in the type of aroclors detected are not considered significant. They most likely reflect variations in manufacturers' formulations.

3.3 PHASE III

The third sampling phase was a series of wipe samples taken on the two electrical panels located in the southwest corner of the building. One panel is a 2400 volt meter panel that services the entire plant. The second panel was a 460 volt distribution panel and was largely out of service. As part of the PCB testing program in the building, four wipe tests were taken on the surface of the two panels and on the adjacent concrete floor surface. These tests were

conducted in March, 1988 and showed levels ranging from 6500 to 1,000,000 ug/wipe.

Based on these results, additional sampling was conducted on the concrete in May, 1988 near the 2400 volt panel. The concrete surface sample showed a PCB concentration level of 60 mg/kg and the subsurface sample had a PCB concentration of 39 mg/kg.

Samples were also taken from the two electrical panels, the surrounding cabinets and the interior floor. Results indicated that both panels were affected. One panel was no longer needed and was to be removed. The other was to be cleaned and covered with a protective temporary structure.

Of the wipes from the interior of the electrical panels, only Aroclor 1254 was detected at a maximum concentration of 130 ug/wipe. Dioxin was not detected above a detection limit of 0.005 ug/wipe.

Since the recommended cleanup level by the EPA for surfaces where there will be heavy contact by human beings is 10 micrograms per wipe, both panels were considered clean. However, the concrete surface surrounding the panels had elevated levels of PCBs. This is consistent with the results of the previous wipe tests and concrete samples.

3.4 PHASE IV

The fourth phase of sampling was a series of three wipe tests and three bulk samples taken at the request of the Los Angeles County Department of Health Services on May 31, 1988.

Sampling was witnessed by two representatives from the Department; the samples were sealed by the Department before shipment to the laboratory.

3.5 PHASE V

The final phase of sampling was conducted in August, 1988. Bulk samples were taken from various locations to test for the presence of dioxins and dibenzofurans. Additional wipe samples were also taken to define further the extent of PCBs present in the building.

The locations for the grab samples of oily sludge to undergo dioxin testing were determined from the results of the original investigation. Samples were taken at the pits having the highest sludge or core concentrations of PCBs. These included Pits 1, 5, and 13. For quality control, a duplicate sample from Pit 13 was submitted. In addition, clean and dirty blank samples, labeled R & D Lab and Kingsbury, respectively, were also submitted. As indicated by the results, no evidence of these compounds was found.

The additional wipe samples were taken adjacent to the first doorway between Building 8 and 9, where a furnace was formerly stored; from the interior of the sewer line at the top of the pipe in the large sump parallel to Flower Street; and at the second doorway between Buildings 8 and 9. The same procedure was followed as described above for wipe testing. The presence of unidentified inorganic oil, most probably the silicon mold release spray used in the previous operations, caused some interferences in this set of tests. Therefore, the results, which ranged from 90 to 450 ug/wipe, may be inflated above the actual levels of PCBs present. All PCBs detected in these samples were Aroclor 1248.

In August, 1988, soil samples were also taken from borings adjacent to and underneath the sump located near the cooling tower behind Building 8. Two borings identified as BB-1 and BB-2 were drilled and sampled. BB-1 was slant drilled 4 feet from the edge of the sump to the center of the hole at a 62 degree angle and to a depth of 10'-6"; the borehole was sampled at 7 feet, 8'-6", and 10'-6". Boring BB-2 was also slant drilled the same distance from the sump as BB-1, but at an angle of 53 degrees. This borehole was completed at a depth of 6'-6", and was sampled at this point.

The samples were analyzed for polychlorinated biphenyls by EPA Method 8080. Aroclor 1248 was found at a maximum concentration of 0.082 mg/kg, indicating that there are no significant levels of PCBs present in the surrounding soils.

A complete description of the location and results of all the samples taken in these five sampling programs are contained in the "Site Characterization and Remediation Workplan" dated October, 1988.

4.0 SUMMARY OF REGULATORY CONSIDERATIONS

The U.S. Environmental Protection Agency (EPA) has generated a list of priority pollutants, including polychlorinated biphenyls (PCBs). These are chemicals which do not normally occur naturally in the environment.

PCBs are considered to be a unique problem because of their persistence in the environment, and have been singled out for special coverage under the Toxic Substances Control Act (TSCA). The Environmental Protection Agency has issued a document, Polychlorinated Biphenyl Spill Cleanup Policy (40 CFR 761), as a guideline for remediation of PCB-affected sites. It discusses standards for decontaminating various types of surfaces, and evaluates the degree of success of decontamination efforts as affected by various site conditions. For example, the effectiveness of cleanup decreases the longer spilled material is in contact with a surface, and/or the more permeable a surface. The document also relates projected risks by level of PCBs and degree of human contact based on the oncogenic properties of PCBs. A recommended standard of cleanliness for hard, semi-porous surfaces indoors is 10 ug per 100 cm². However, the document acknowledges that it may be difficult to achieve this value.

In California, the Department of Health Services (DOHS) has been designated the lead State agency for the hazardous waste management program. The California DOHS regulations (Title 22, Division 4, Chapter 30) on hazardous wastes (California Assessment Manual, or CAM) govern materials which constitute "hazardous wastes", i.e., if wastes contain constituents which exceed the State's total threshold limit concentration (TTLC) standards, the wastes are usually classified as hazardous. Thus, they are normally required to be disposed of in a Class 1 landfill site. If toxic chemicals are spilled on soils or other materials to the extent that their concentration exceeds the TTLC, the material is considered a hazardous waste under California law. The TTLC for PCBs is 50 mg/kg.

DOHS has designated the implementation of its program to the Los Angeles County Department of Health Services. This agency assumed the lead for review of and concurrence with the remediation program.

As noted above, the EPA has established a level of 10 ug per 100 cm² wiped area as an acceptable level for surfaces that will have a high potential for human contact. The decontaminated surfaces in Building 8 were not intended for continued use, but were to be disposed of as demolition debris. Nonetheless, the EPA criterion was adopted to evaluate the success of the decontamination effort. This conservative approach was followed to minimize potential risk to personnel and the general public.

5.0 HEALTH AND SAFETY ISSUES

Polychlorinated biphenyls are very stable compounds chemically, and are thus resistant to biodegradation. PCB solubility in water is very low. However, they tend to bond tightly to particulate matter, notably soils and sediments. PCBs are lipophilic compounds, which, if released into the environment and ingested by biota, accumulate in fatty tissues. They thus bioaccumulate, often increasing several orders of magnitude in concentration at each succeeding trophic level of the food chain.

Occupational exposure to PCBs at high levels has been associated with the occurrence of chloracne. The actual risk of chloracne is also a function of individual susceptibility and personal work habits, as well as possible exposure to other compounds.

Based on animal studies, the EPA and the State of California regulate PCBs as probable human carcinogens.

The risk to the public health posed by Building 8 prior to remediation was negligible. Because of the enclosed location of the PCBs, limited access to Building 8, the fact that PCBs are not volatile or soluble in water, and their inability to enter the environment, there was no danger to the public. During the cleanup of the site, the public was not exposed to PCBs, and the work was carried out only by personnel experienced in the cleanup of these materials who used suitable personnel protection equipment.

PCBs have been listed in the State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as one of the compounds known. As a listed compound, warnings must be issued to any person could come in contact with or otherwise be exposed (Section 25249.6 Health and Safety Code). All personnel involved in the decontamination and demolition of Building 8 were informed during an intensive pre-job training. All personnel were required to acknowledge the warning by signing the Health and Safety Plan prepared for this project.

Although the exposure to ITT employees was considered to be negligible, all personnel working at the location were informed about the remedial program through a series of training sessions conducted by a Certified Industrial Hygienist, as well as through written communications.

Public notice of the work was made through the State Department of Health Services. However, with the precautions taken for the remediation, the risk of any exposure off-site was insignificant.

6.0 REMEDIATION ALTERNATIVES

As confirmed by the characterization study, it appears that, over the years of the die-cast operations, oils and greases containing PCBs were released into the die-cast area. As this material accumulated, it formed a viscous, oxidized layer. A number of remediation alternatives were considered to remove or isolate this PCB-containing material so that the site could be used for other purposes:

- 6.1 No Action: (Abandoning the building in place). This alternative was rejected because the characterization study showed levels of PCBs above the EPA established action levels.
- 6.2 Encapsulation: Sealing of the floor of the building with an additional layer of concrete and decontamination of the walls and supports was considered as an alternative. This alternative was rejected, since it would only postpone the problem of removing the PCBs until the building was taken out of service under the plant renovation program.
- 6.3 Demolition and Disposal with No Decontamination: The feasibility of demolishing the entire structure, with no decontamination operations, and disposing of all the debris at an approved out-of-state facility was evaluated. This alternative was rejected as not being cost-effective.
- Decontamination, Demolition and Disposal of Affected Debris: PCBs would be removed from the structures of the building amenable to cleaning. Those structures that would be difficult to clean, as well as any affected concrete, would be removed and disposed of at U.S. Ecology in Beatty, Nevada (USE). The remainder of the structure would be demolished and disposed of as construction debris, and the site would be restored. This alternative would remove all PCBs from the site, ensure that there had been no migration of the PCBs into the environment, and free the area for future use. It was selected as the most environmentally protective and cost-effective alternative.

7.0 PROJECT ORGANIZATION

Cindy Dowdell was ITT's contact person for the project. ITT retained the law firm of McKenna, Conner and Cuneo as project coordinators to act as intermediary between ITT, the regulatory agencies and the general contractor, A. L. Burke Engineers, Inc.

- A. L. Burke was responsible for development of the Workplan, Health and Safety Plans, subcontractor training, overall supervision of the work and verification sampling.
- A. L. Burke in turn hired three subcontractors to do the decontamination, demolition and hauling. Environmental Investigation and Action, Inc. was the decontamination and demolition subcontractor, AJ's Concrete Cutting was responsible for cutting and breaking up the concrete and Glendale Trucking hauled the debris and backfilled the excavation with clean soil.

The U.S. Ecology disposal site at Beatty, Nevada was selected as the disposal site.

8.0 SUMMARY OF WORKPLAN

The Workplan was based on the results of the sampling program and the configuration and condition of the building.

The site was divided into work zones by task. This allowed affected areas of the site to be isolated from the clean support area. Barriers were erected at all openings for dust containment prior to beginning the demolition.

Utility systems serving Building 8 were disconnected before demolition. This included:

- The 2-inch natural gas line to the building was shut off, and bled down by the gas company. The line was then cut and capped.
- Potable and utility water were shut off and the lines capped.
- Sewer connections were capped.
- o The 460-volt panel was removed.
- A weatherproof, dust-tight shelter was constructed around the 2400-volt panel to protect it during and after demolition.

All objects that were not fastened or bolted to the floor were removed from the Machine Room floor and segregated for decontamination or disposal. These objects were stored on 4-mil visqueen to preclude cross-contamination of the storage area. The floor was cleaned of all dirt, absorbents, glass, and metal shavings. Scrapers were used to remove heavy sludges, which were containerized for disposal. The machine foundations were scrubbed with diesel fuel and a steel wire brush to remove all sludges. The waste material produced from this operation was sent for disposal at the facility of U. S. Ecology in Beatty, Nevada (USE).

All fixtures, plumbing, electrical conduit, and any other material was not necessary for the support of the building was dismantled and removed from the roof. This material was segregated for disposal or decontamination. The following equipment was used: Pneumatic wrenches, cut-off saws, and rivet poppers. The equipment was removed from the roof in an orderly fashion and was not allowed to come in contact with the floor of the Machine Room.

The boundaries of the areas containing elevated levels of PCBs were marked using fluorescent paint. Diesel fuel was the preferred fluid for decontamination due to its high flash point. It, along with kerosene, has been recognized as an effective decontaminating agent in several EPA research projects and in actual remedial cases. Diesel fuel is preferred to kerosene for this site because of its lower toxicity to personnel performing the decontamination.

The diesel fuel was applied to the surface of non-porous materials to be cleaned using a Hudson Sprayer. The surface was scrubbed with a brush, wiped down using rags and later rinsed again in the same fashion using clean rags and diesel. All materials from this operation were drummed and sent to USE.

A temporary weather shelter was installed for the 2400-volt electrical panel since the panel could not be replaced or relocated cost-effectively prior to the disassembly of the building. The shelter was constructed around the panel to protect it from debris generated during disassembly and from the elements once the building had been removed. This structure was required since the panel's NEMA 1 construction is suitable for indoor service only and is not permitted by NFPA code to be used out-of-doors. The exterior surfaces of the electrical panel was decontaminated using diesel fuel. The affected concrete under the panels will be removed when the panel is taken out of service and removed from the site.

The floor in the Tool and Press Rooms adjacent to the Machine Room were decontaminated using diesel fuel. The floor was scrubbed with brushes and the diesel fuel was absorbed with sorbent, and the process repeated. The residues were drummed and sent for disposal at USE.

Demolition of the Machine Room floor was accomplished by concrete breakers. As noted previously, prior to the start of this phase, dust-proof barriers were erected at all openings in the building. Plastic sheeting was used during

the breaking operation to minimize the entry of particles into the work zone. The surface soils underlying the slab were also removed, along with the concrete, for disposal at the USE facility.

9.0 MODIFICATIONS TO THE WORKPLAN

The original workplan was modified as work progressed and additional PCB affected areas were found.

High winds, which required that repairs be made to the visqueen sealing the building, caused additional expense and delay during November.

Beginning in December, 1988, the concrete floor was cut into manageable pieces for removal. The removal of the concrete in the Machine Room took longer than expected. The floor slab was originally thought to be six to eight inches thick. When demolition started, it was found that the slab varied from four (4) to six (6) inches thick over much of the floor, but the concrete under each machine pit was much thicker, ranging from twenty-four (24) to forty-two (42) inches. There were twenty-three of these foundations and one of them was reinforced with No. 4 rebar. The time required to break up and remove these foundations tripled the time originally estimated. The volume of concrete was twice the original estimate and doubled the estimated disposal costs. The first load of concrete was sent to USE on December 19, 1988. By January 6, 1989, approximately 90% of the concrete in the Machine Room had been broken up and approximately 500 tons of concrete containing PCBs had been trucked to the USE.

When the concrete floor was demolished, several underground pipes containing hydraulic oil were exposed beneath the floor. These extended into the soil, and were found to be corroded or damaged, so that leakage had occurred. As a result, the soil under the concrete had been contaminated with oil. Since the oil had stained the concrete purple and the soil black, seriously affected areas could be visually identified.

A comprehensive soil sampling plan was then developed. Nineteen (19) borings were planned to a depth of five (5) feet, with samples being taken every foot. The surface and one (1) foot samples were analyzed immediately; the others were archived. If the first analysis showed detectable levels of PCBs, deeper samples were analyzed until the soil tested free of significant levels of PCBs. The volume of affected soil and the time required to remove it could not be estimated until the sampling had been completed. Borings at pits 1 through 6 in the Machine Room showed evidence of PCBs to a depth of five (5) feet. In other locations, borings and sampling to a depth of ten (10) feet were required. Boring logs are included in Appendix A and boring locations are shown on Drawing 87-07-0006-D-02.

Some of the soil samples were tested both by EPA 418.1 for the presence of total petroleum hydrocarbons and EPA 8010 for volatile organics. Petroleum hydrocarbons were found in some samples, but all were free of volatile organics.

Removal of soil near pits 13 and 16 uncovered the footers from two of the columns. One footer was displaced about six (6) inches; the other was cracked around its entire perimeter. No lateral stability remained in either of these columns and the building was obviously weakened. It was stressed to the contractor that no lateral loads were to be induced on the structure during demolition. The demolition plans provided for vertical cutting and did not allow any horizontal pulling on the structure. A detailed demolition and safety plan for removal of roof and steel structure was prepared, and after careful discussions with the contractor, the roof was cut down and the debris transported to USE.

Approximately 500 square feet of asbestos tile was removed from the floors in the offices in the Tool and Press Rooms. The interior wood and sheet metal wall separating the Tool and Press Rooms from the Machine Room was demolished. The remaining 800 feet of overhead crane was removed. Laboratory tests showed that this section of the crane had levels of PCBs exceeding 50 ug/kg. Overhead pipe, conduits, and light fixtures were removed from the Press Room. None of this material could be salvaged, and all was transported to USE.

Additional sumps were uncovered during removal of the floor slab. These sumps were included in the sump closure plan and were in turn demolished.

A closure plan for the sumps in Building 8 was submitted to the Los Angeles Department of Public Works in late December, 1988. After a period delay, the County approved the plan and the sumps were removed in April, 1988. The closure plan for the sump is found in Appendix B.

Although the characterization samples from the Tool Room showed only moderate levels of PCBs, two independent laboratories found levels in concrete cores taken during demolition which required that the floor be broken up and

disposed of as hazardous waste.

Heavy rain during February caused excessive water intrusion from a damaged exterior storm sewer adjacent to the largest sump along the Allen Street wall of the building. Demolition in this area ceased because of the danger of collapse of the wall or sidewalk. The water was pumped out and the outside seepage blocked by forming a concrete plug in the seepage area.

A series of 233 wipe, bulk and soil samples were taken during the course of the project to define the limits of the affected area and to confirm the effectiveness of the cleanup. The verification sample program determined that the Machine Room's roof and supporting structure, all of the overhead pipe and conduit in the Machine Room, and the soil under the Machine Room floor slab was affected.

Verification testing also determined that the decontamination procedures for cleaning the structural steel, overhead crane and overhead pipe were not completely effective. The oils containing PCBs had oxidized and bonded to the paint. Scrubbing the painted surfaces was insufficient; the paint itself would have to be removed. After evaluating costs, it was decided that these materials would be disposed of as affected debris at USE. This alternative presented the most conservative remedial approach.

The verification sampling revealed that the concrete in the Tool and Press Rooms was affected, but the soil underneath was not. The overhead pipe and conduit in these rooms was shown not to be affected and was disposed of as clean material.

The as-received laboratory analyses for the verification samples are found in Appendix C, the chain-of-custody forms in Appendix D.

After demolition had been completed and the soil under the Machine Room had been excavated, a pile of earth approximately 42 x 76 x 15 feet high remained in the northwest portion of the excavated area, and a small pile of debris in the northeast area. Six soil samples were taken from the piles, which showed high levels of PCBs in two areas. These areas contained the remaining concrete from the floor slab and dock areas as well as affected soil found as a result of the borings. The results of the tests are in Appendix E (Samples 8-242 through 8-247).

Two options were considered for handling the piles. The first option was to ship the areas of the pile most highly affected with PCBs to USE and to blend the rest with clean soil to achieve an overall PCB concentration of less than 50 mg/kg. The second option presented was to ship the entire pile to USE.

The first option was selected by ITT as the most cost effective. A backfill plan was prepared by ALBE to implement this option. The backfill plan called for raising the elevation of the excavated area to the level of the adjacent pavement by backfilling and compacting a series of six inch lifts. One eighth of the stockpiled soil was mixed into each lift. Each lift was then compacted to 95%. The backfill plan is found in Appendix F and the compaction report is found in Appendix G.

10.0 METHODOLOGY

A. L. Burke, Engineers, Inc. conducted an eight-hour project training session, on November 11, 1988, covering the health and safety plan, decontamination and demolition procedures. All attendees received copies of the project Health and Safety Plan. Training was conducted with specific emphasis on job procedures, safety considerations and segregation of affected from clean materials. Supervisory personnel had previously completed training equivalent to 29 CFR 1910. Training records were documented and confidentiality agreements were signed by all personnel and filed in the field office. Prior to starting work, a decontamination trailer was installed and decontamination stations were established. The building was closed to the outside with visqueen.

10.1 Decontamination Procedures

Decontamination procedures were developed for each task associated with the project. These procedures were adhered to throughout the project.

10.1.1 Decontamination of the Machine Room Floor

All objects that were not fastened or bolted to the floor were removed from the room and segregated for decontamination or disposal. These objects were staged on 4 mil visqueen to preclude cross-contamination of the staging area. The floor was swept clean of all dirt, absorbents, glass, and metal shavings. Scrapers were used to remove heavy sludges. The machine foundations (pits) required scrubbing with diesel and a steel wire brush to remove all sludges. The waste material produced from this operation was drummed, labeled and moved to the staging area.

10.1.2 Overhead Equipment Removal

All overhead fixtures, plumbing, electrical conduit, and any other material that was not necessary for the support of the building was dismantled and removed from the roof. This material was segregated for disposal or decontamination. The following equipment was used: Pneumatic wrenches, cut off saws, and rivet poppers. The equipment was removed from the roof in an orderly fashion and was prevented from contacting the floor of the Machine Room.

10.1.3 Decontamination of Wall and Structural Components

The boundaries of the walls which showed levels of PCBs above the action limit were marked using fluorescent paint. Diesel, used as the washing agent, was applied using a Hudson Sprayer and scrubbed with a brush, then wiped down using rags and then rinsed again in the same fashion using clean equipment and diesel. All materials from this operation were drummed and sent to the staging area.

Verification samples taken of the building; walls and columns indicated that decontamination was not completely successful. The oil containing PCBs had polymerized and oxidized and could not be removed by scrubbing on some of the building materials. Successful decontamination could only be achieved by removing the paint. Methods to remove the paint by sandblasting or solvent stripping were rejected because of the need for additional particulate control and the potential production of liquid waste which would create additional disposal problems. Consequently, these materials were disposed of at USE. The hazardous waste manifests for all of the materials sent to USE are found in Appendix H.

10.1.4 Floor Decontamination

The floors in the areas where oil had not penetrated the concrete were decontaminated using diesel fuel. The floor was scrubbed with brushes, and the diesel absorbed with sorbent and the process repeated. The material was then

10.1.5 Demolition of the Electrical Panels

The exterior surfaces of the electrical panels were decontaminated using diesel fuel as a wipe solvent. The affected concrete surrounding the panel was removed, and the area resurfaced with clean concrete. However, the oxidation of the oily coating prevented effective decontamination of the panel exteriors. The 460 volt panel was scrapped and sent to USE. As noted, the 2400 volt panel was housed in a shelter and will be removed at a later date.

10.1.6 Building Demolition

The building was demolished in sections by using the boom of a CASE 780 backhoe to pull down the walls and roof. The sections were then loaded into trucks for disposal. The structural steel was also pulled down with the CASE, cut up into pieces and loaded for disposal.

10.2 SAMPLE PROCEDURES

10.2.1 Wipe Tests: Wipe tests were conducted using VOA bottles and 100 cm² lint-free cloth wipers saturated with pesticide-grade hexane. Technicians conducting the sampling used protective gloves.

Once the sample location was determined, all equipment was positioned for easy access. While wearing the protective gloves, the technician opened the VOA bottle so the cloth could be quickly sealed inside.

He soaked the cloth thoroughly with hexane and wiped the sample area in a circular motion until all of the cloth was soiled. When the wipe was complete, he rolled the cloth so that the soiled part was on the inside, inserted it in the bottle and screwed on the cap. Finally, he affixed a label on the bottle identifying the project number, sample, date and location; and placed bottle in an ice chest using blue ice as preservative.

- 10.2.2 Bulk Tests: The locations for the bulk samples were determined by the environmental toxicologist and field engineer prior to the start of sampling. The bulk samples were taken by using a stainless steel scraper to remove 25 to 50 grams of the viscous material. The samples were then placed in a forty millimeter glass VOA bottle, labeled and placed in a refrigerated ice chest. All of the bulk samples from Building 8 were material from the various machine pits.
- 10.2.3 Sump Samples: A sterile testion bailer equipped with a long handle was used to remove a bulk liquid sample from the sumps to be sampled. Once the sample was obtained, it was transferred from the bailer into a forty milliliter glass VOA bottle. The lid was then securely fastened, and the sample bottle was labeled and placed in the refrigerated ice chest.
- 10.2.4 Hand Auger Sampling: The sample locations for the hand auger drilling were determined by visually inspecting the exposed soil for obvious discoloration due to the presence of oil. The 3-inch auger was manually drilled vertically to the required depth. Soil was withdrawn from the auger and put into 500 ml Qor-Pak jars, which were sealed, labeled and placed in a cooler. Boring logs were prepared for each hand auger boring.

11.0 VERIFICATION

After the surface elevation had been restored to the level of the existing pavement, eight verification soil samples were taken, samples 8-251 through 8-258. Results of seven of the samples showed levels of PCBs that were lower than 50 mg/kg; the eighth, 8-252, was higher (70 mg/kg). When these results were known, two additional samples were taken at random locations.

It should be noted that between the time of the initial eight samples and the second set of samples, the Vault Room - the restrooms from Building 8 and all of Buildings 9 and 9A had been demolished under another contract. During the course of the work, some soil from the vicinity of Building 9A and adjacent restrooms had been exposed on the surface of the northeast corner of the backfilled area.

The results of the additional samples showed one was below 50 mg/kg. However, the sample from the northeast corner showed a concentration of 80 mg/kg.

Since additional demolition debris and soil was spread over the area since the work had been completed, this result is not representative of the backfill in that area. Additional sampling should be done from the site of the restroom and Building 9A to determine if area of PCB affected soil was undetected or if an additional area requires remediation.

Drawing 87-07-0006-A-10 shows the locations of the verification samples and the results of the analyses are shown in Appendix I.

APPENDIX A BORING LOGS OF DEEP SAMPLES

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BURKE ENGINEERS 1162 N. KRAEMER PL. ANAHEIM, CA 92806

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LUCATION	OF BORING:						JOB NO. 87-07-0006 CLIENT: 3 BORING NO.								
_		Glend	daie/B	urbo	ınk	PROJE	PROJECT NAME: ITT Hazardous Waste Investigation 8-197								
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		Buildir				DRILL	DRILL RIC TYPE:								
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1			_30'_	L	4			THOD:	Grab S	omple	S				
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A. L. BURKE ENGINEERS 1162 N. KRAEMER PL.

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		uth V					1	SAMPLING METHOD:							
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A. L. BURKE ENGINEERS 1162 N. KRAEMER PL. ANAHEIM. CA 92805

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EIA HILLING CONTRACTOR: LOCCED BY: _ Jeff Drew Ken Bornett DRILLER(S): _ DATE: 1/3/89 CHECKED BY R.C.E.

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## A. L. BURKE ENGINEERS 1162 N. KRAEMER PL. ANAHEIM. CA 92805

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	·	-		_ }	}		dark to	prograc <b>medi</b> u	m brown.	eldspo	r; mallecble;	no odor;					
				3	1							•					
					CL		auartz.	y (60% feldsoc	6 Clay, 35%	silt, :	5% medium : e; isolated g	sand);					
201-4		12	10:45	. <b> </b> -			pebbles;	no o	dor; dark t	o med	ium brown.	ranitic					
	<del></del> -			1													
	_,			E	CL		Silty clo	y (60%	cloy, 40%	silt, •	<5% medium	sand);					
	*				} }		dark bro	piogioc wn.	ruse and n	eraspar	; molleable;	no odor;					
201-5	:	24	10:50	5								·					
				-	CL		Silty cla	y (50%	clay, 50%	silt);	some coars	e sand;					
				F			no odor;	dark	brown.	eiospor	; slightly mo	olleoble;					
				6			•										
			1	F			a :	•									
			—	7		j											
						·			* .								
						1			•								
				8		.											
DRILLING CO	NTRACTOR:	· · · · · · · · · · · · · · · · · · ·	EIA		<u>1</u>		10000	n ev.	Jeff (	)rew	· · · · · · · · · · · · · · · · · · ·						
DRILLER(S):				tt_					9 CHECKED		· · · · · · · · · · · · · · · · · · ·						
							VAIE:		VIEWED	DI K.C.E							
											· · · · · · · · · · · · · · · · · · ·	ITTBNC15.DWG					

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## BURKE ENGINEERS 1162 N. KRAEMER PL. ANAHEIM. CA 92806

OCATION	OF BORING					1.55							SI	IEET 1_of_2	
1			<i>1</i> -			JOB N	87_07_0	006 CLIE			-		BORI	NG NO.	
		Gien	dale/8	Burb	ank	PROJE	PROJECT NAME: ITT Hozardous Waste Investigation 8-208								
LOCATION		. ـ • د و• .						Hand	Auger					· · ·	
1		uilding outh			•	1	RIG TYPE:							*	
1	•					SAMPL	INC METHOD:	(	Grab S	Sample	25				
1 1		-	37'	-	1	SAMPL	E STORAGE MI	77.000			Blue I				
1		8-20:	0	1		W/	ATER LEVEL				0.00	START		FINISH	
1 1	[3	6-20	, .	.			TIME	9:00			-	9:00 A.	м	9:15 A.M.	
_				<u> </u>			DATE	1/11/89				START DATE		L	
DATUM:		Ε	LEVATION	∜ ≈	508'	CA	SING DEPTH	7.1,55					_	FINISH	
		T.,	E	1		T'	SURFACE CON	DITION:				1/11/8	9	1/11/89	
<b>42</b>	E	NO.	¥ ¥	=	la	ပ္		_	Silty	claye	y soil				
SAMPLE	BLOWS PER SIX INCHES	V READING	TIME AT NOTED DEPTH	5	SOIL TYPE	CRAPHIC LOG			S	OIL D	ESCRI	PTION			
νz	₩.	کے ت	NO		-	8					<del></del>				
	<del> </del>	<del> </del>	<del>                                     </del>	<del> </del> -											
208-S		5	9:00	0-	口	1111	Silly clay	(50%	clay,	40%	silt, 1	0% sand):	; di	ry; medium	
'	1	1	1	-	H CL		l to coars	e sand	i; quo	irtz ai	ola br	aioclase i	י מנ	to 1/8"	
208-1		5	9: 05	1			diameter dark bro	; mea	ium n	ralleat	oility;	no odor;	me	dium to	
200-1		1-	9:05	1 -	+		durk bro	WII.	•		•				
					日点		Silty clay	(75%	clav.	20%	silt c	5% sand)	. ام	ry; medium	
			,	1	HCL		to high i	mailea	bility;	no oc	dor; d	ark brown	, u	y, medium	
208-2	i	18	9: 07	2-	П										
200-2		110	9:07	1	日		Silty clay	(65%	clay,	30%	silt, 5	% granitic	: cl	asts up	
				1	CL CL		Silty clay (65% clay, 30% silt, 5% granitic clasts to 1/4" diameter); biotite flakes; medium malle no odor; dark brown.							rolleability;	
208-3		17	9:10	3-	耳		110 0001,	COIR	or own	• .					
		<del> </del>		1	H		Silty clay	(65%	clay	357	ر دائم	5% mediu			
							quartz, p	lagioc	ase a	nd bid	otite f	Jakes; me	m : diu	sana);	
208-4		19	9:12		H		malleabili	ty, no	odor	dark	brow	n.	.010	···	
			ų	•-									_		
					H CL		sand); bi	otite	lakes:	45%	siit, ji	% medium dium mal	i to	Coarse	
					H		odor; me	dium	to da	rk bro	wn,	5.6.11 11101	1600	ourty, no	
208-5		30	9:15	5-											
	<del></del>						Silty clay	(50%	clay,	45%	silt, 5	% medium	ı to	coorse	
					日		sand); bi odor; me	onie i	iokes:	IOW 1	io me	dium mal	leat	oility, no	
				6-	$H \mid$		Judi, me	חוטות	to aar	K Dro	wn,				
					口		•			••					
	· · · · · ·				H										
				7-	A I	1									
					H										
					H $I$	.									
				8_		1								1	
					H							,	•	1	
DRILLING CO							LOCCE	BY:		Jeff D	rew				
DRILLER(S):	•	M	like To	orres	<u> </u>		DATE:	/11/8	9 0	ECKED E	Y R.C.E.				
						···									
														ITTBNG15.DWG	

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### BURKE ENGINEERS 1162 N. KRAEMER PL. ANAHEIM, CA 92806 A.

LOCATION	OF BORING:						Lion -	10	15:						EET _2_0F_2_
1		01	<i>/-</i>				JOB N	87-07-0	006 CI	INT:				BORI	NG NO.
		Glen	dale/E	surb	ank		1	CT NAME: ITT	Hozo	rdous	Woste	Inves	stigation		8-208
LOCATION		•• ••					DRILLI	NG METHOO:		Augei				<u> </u>	
1		ilding					DRILL RIG TYPE:								
1	<b>&gt;0</b>	uth '				•		JNG METHOD:		Grab :	Samel				
1.		-	37'		1		SAMP	LE STORAGE MI	THOO:	Cooles	:	Div			·
	C	)						ATER LEVEL	<u>'</u>	Cooler	WILD	Dive !	CE		FINICH
	·63	8-208	3					TIME	0: 70	-			START TIME		FINISH
_		·						DATE	9:30	<del> </del>			9:30 A	.м.	11: 31 A.M.
DATUM:		E	LEVATION	í: _≈	508	•	CA	SING DEPTH	-/ -0/8	· ·			START DATE	B.C.	FINISH DATE
			E	T			<u> </u>	SURFACE CON	DITION:	<u> </u>	<u> </u>	<u> </u>	2/28/	שט	2/28/89
<b>45</b>	BLOWS PER SIX INCHES	V READING	AT DEPTH	2	: <u>                                    </u>	ا پ	₽				ry clo	yey si	It		
SAMPLE	S S	P 2	NOTED (	و ا	SOF SOF	٤١	CRAPHIC LOG			S	OIL D	ESCRI	PTION		
"-	ස්ගි	کے ا	20				ತ		7						
208-6		17	9: 45	٨.	寸			Classes =	مند	/					
1	+	+''-	3.43	1	Η			sand. 10	onay s % clas	317 (5) (): des	J% Sill	t, 30%	fine to ( to 1/2"	dia-	se-grained
<del></del>	<u> </u>	<b> </b>	ļ	'	口 ^v	1L		granitic	compo	sition;	grair	is of	plagioclas	e. c	uartz.
208-7		18	11:20	7-	日		ЩЩ	relaspar	and b	iotite;	low p	olastic	ity; no od	Jor;	medium
				] [	H			brown.							
	<del></del>	<del>                                     </del>		1	口~	1L		Clayey so	andy s	ilt (70	7 silt	, 20%	fine to d	oar	se sand,
		<del> </del>	<del> </del>	_	Н		ЩЩ	and binti	); ary; te: Io	grair w olas	is of	plagio	clase, quo dor; med	rtz,	feldspor
208-8	<u> </u>	20	11:25	8-	H		$\prod$	1.							
				]	日~	1L		10% clay	ondy s	arc:	0% silt	. 20%	fine to d	oar	se sand,
205 6	<del></del>	1 4 5	<u> </u>	1	H			and bioti	te: Io	w plas	ticity:	no on	clase, qua dor; med	ium	teldspar
208-9		18	11:30	9-	Ħ	H	$\Pi\Pi$	l.							
		1			H	ال ۱		Clayey so	ndy s	ilt (70	% silt	. 20%	fine to d	oar	se sond
208-10		19	11: 31	1	日"	-		loug beog	ues, i	U% CIC	1y): di	rv. pe	bbles un	to 1	/8"
	1		151	10-	$\forall$	H	<del>                                      </del>	quartz, b	iotite.	feldsi	oar ar	ostion;	sibly ougi	orp ite 4	lagioclase,
·	-				H.	.		blende; l	ow pic	sticity	r no	odor;	medium	to li	ight brown.
				1	口"	·-									-
				11:-	oxdot	4	щ	Clayey so	les. 1	0% cla	//• \$11( 1y): dr	, 20% 'Y: pei	nne to d	oar:	se sand
	<del>                                     </del>	<del>                                     </del>			П			Joiometer	of gr	anitic -	comp	ostion:	argins o	of n	laniociase
	<del> </del>	!			III		ļ	-quartz, b	iotite,	felds	oar an	eoa bı	sibly quai	te d	or horn-
				12-	╁┤			Dienoe, K	∍# bio	sucity	; no (	oaor;	medium	to li	ght brown.
				٠,	日	.				,					
	1				H							•			<u>,                                      </u>
	<del> </del>			13-	H				•						
·					口										
					H		- {					•			
				14-	H		.	•							İ
	<u></u>	L	لببا		ഥ_				<u> </u>						
	ONTRACTOR:		<u> </u>					- <del></del>	D BY:		Jeff [				
DRILLER(S)	:Joh	וח אנ	opinso	n &	Mik	<u>e To</u>	orres	DATE:	2/28/	<u> /89</u> c	HECKED	BY R.C.E.	· <del></del>		
<del></del>															ITTBNC15.DWC

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B		A.	L	. 1	B L	1 R 2 I	N. KR	E N A E N	G 1 1 E F 9 2	N ≥ P 8 O	E E L. 6	RS		
OCATION (	OF BORING:					JOB	NO.	icui	NT:		73			ET 1_ or 2
J	II	Glen	dale/	Burb	ank	PROJ	87-07-0	nne i						G NO.
LOCATION S	SKETCH				-	DRILL	ECT NAME: ITT	Hozo	rdous	Waste	Inves	stigation	8	-209
В	luilding	8 -	Souti	h Wa	ıll		RIG TYPE:	Hong	Auge	<u> </u>				
l	•	,				SAMP	LING METHOD:		Ceab (	Sample				
			J	56'	۱ ۲	SAMP	LE STORAGE M				Blue I			
		7	-0 ₈₋₂	09		W	ATER LEVEL	<del>                                     </del>	Jooler	With	DIUE I	CE START TIME		EINICH
	1	58' <b>–</b>		•			TIME	9: 20				9: 20 A.K		FINISH
					لــــــــــــــــــــــــــــــــــــــ		DATE	1/11/89				START DATE	<del>'·</del>	9: 40 A.M.
DATUM:		Ε	LEVATIO	<b>√</b> : ≈	508'	CA	SING DEPTH					1/11/89		DATE 1/11/89
	es vi	٧	Ę				SURFACE CON	DITION:	Deve		- *11			1711703
SAWPLE	ŠŠ	V READING	E AT DEPTH	E	₹ F F	¥ o				andy				
35	BLOWS PER SIX INCHES	7 8	NOTED C	8	Z X Z	GRAPHIC		<del></del>	S	OIL D	ESCRI	PTION		
		=	Ž	ļ										
209-S		35	9: 20	0-	H	him	Sandy s	ilt (60	% silt	. 30%	sand.	5% clay);	<b>6</b> 11	ortz
•				] -	$\prod$ ML		plagiocle	se an	d biot	ite; n	o odo	r; medium	bro	ovn.
209-1		23	9: 25	1	口 ̄									
			3.23	1-	Н	////	Silty cla	v (709	z clav	30%	-314\.	biotite flo		
		-	<u> </u>	-	H CL		malleabl	e; no	odor;	dark	brown	to black.	kes;	very
					$\Box$									
209-2		20	9:30	2-			Silty cla	v (709	Clay	<b>ን</b> በማ	-:14\-	h!-4!! n		,
							maileable	e; no	odor;	dark	brown	biotite fla to black.	kes;	very
209-3		28	0.70									10 0.00A.		
		20	9: 32	3-			:Silty clay	v (65%	clay	3 <b>በ</b> ማ	-:: -	% quartz		
					CL CL		0.036 30	1107, 11	regiun	1—araı	nea s	ond; maile	ana Iable	plagio-
209-4		30	9: 35		-		odor; m	edium	to do	rk bro	wn.		,00.0	" "
			·	•	7 :		Silty člav	/ (70 <del>%</del>	clay	<b>ን</b> በማ	-::+\.	very malle		
				t			odor; da	rk bro	wn.	30%	Sirt);	very maile	able	; no
				_	-  .									
209-5		24	9: 40	37	┨╻. │		Silty clay	. /7n <del>o</del>	<b>-</b> 1	70~				ŀ
	Ī			t			odor; me	dium	ciay, brown	JU%	siit);	very maile	able:	; по
				_ [	-		•		<b>_</b>	•				, I
				5	]			•						1
				+	_		í							1
İ		I		Г	7	]								•

RILLING CONTRACTOR: A.L.B. LOGGED BY: Jeff Drew
RILLER(S): Mike Torres DATE: 1/11/89 CHECKED BY R.C.E.

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# A. L. BURKE ENGINEERS 1162 N. KRAEMER PL. ANAHEIM, CA 92806

OCATION (	OF BORING		<del></del>				JOB A	10	10.0	9 Z	6 U	<u> </u>		SHEET _2_0F_2			
. 7	مالممالم	Glen	dale/	Ruck	200	i.	_	87-07-0		NI:			80	RING NO.			
LOCATION S	SKETCH		00.67	-	-		DBILLI	NO NETHOD	Haza	rdous	Waste	Inves	stigation	8-209			
		_	_ :				L	PROJECT NAME: ITT Hazardous Waste Investigation 8-209  ORILLING METHOO: Hand Auger									
5	uilding	8 –	Sout	h W	oli-		•	DRILL RIG TYPE: SAMPLING METHOD:									
,			. 1	56'				•		Grab S	ampl	es					
					٦	Ì	SAMPI	LE STORAGE M	ETHOD: (	Cooler	with	Blue I	ce				
		68' <del>-</del>	^{-O} 8−2	09			W	ATER LEVEL					START TIME	FINISH			
. L		••						TIME	10:30				10:30 A.M.				
DATUM:		15	I EUA VIX	· ·				DATE	2/28/89				START DATE	FINISH DATE			
			LEVATIO	<u>" =</u>	= <u>50</u>	8'	CA	SING DEPTH					2/28/89	2/28/89			
	e v	ပ္ခ	E					SURFACE CON	DITION:	Dev	claye			1 -//			
SANPLE	BLOWS PER SIX INCHES	V READING	THE AT NOTED DEPTH		IN FEET	SOL	CRAPHIC LOG						·				
SA	X X	7 2 6		8	S Z	א ⊱	🕺 🖰			\$	OIL D	ESCRI	PTION				
	<b>B</b> V1	2	ž														
209-6		12.	10:4	5 6	_		111111	Sandy cl	ayey s	ilt (70	% sil	t. 20%	clay, 10%	fine to			
			1	1				1 600.36-6	ur oinec	, sana	J: dry	c arai	ne of plant	Science			
200 7		+	-	-	Н	ML		brown.	no rei	aspar;	low	piastic	ity; no odo	r; medium			
209-7		12	10:50	7	Д		<b>J</b>										
			1	1	Н			Sandy clayey silt (70% silt, 20% clay, 10% fine sand);									
				1	H	ML		III or ye growns of progressions. Quarty, and feldence law									
		-			口			plasticity; no odor; medium brown.									
209-8		16	10: 55		Н		Sandy clayey silt (70% silt, 20% clay, 10% fine to										
1						ML		course-d	Irained	sand	): drv	c arai	ns of placia	close			
209-91		20	11:00	1 .	口	į	Шиш	quortz o	nd felo	ispar;	low p	olastic	ity; no odor	; medium			
200 0		20	11.00	•	H			brown.					•				
				].	口	ML		Sandy cla	TVAV S	H (70	7 :11	20%	clay, 10% f				
209-10		20	1:02	١.,	H	-		medium –	graine	a san	3): dr	'V. ord	lins of placi	oclasa			
				10-	$\Box$	İ		4001(2, 1	eiazbai	ona	biotit	e; low	plasticity;	no odor;			
		-		1	Н	ML		medium (	prown.					•			
					Н	[		Sandy cla	yey si	It (80	% silt	10%	clay, 10% fi	ina ta			
				11 -	口		7	course-d	rainea	sana	: drv	. Ocoir	is of placia	-1			
					H	- 1	1	quartz, fo medium l	eraspar	ana	biotit	e; low	plasticity;	no odor;			
			-		日		1	medium (	orown.		•		•				
<u> </u>	·			12-	廿												
1					H												
					口	l							•				
				13-	H							•					
				i	日					•		•					
					H	1											
				14-	$\Box$												
		!	<u> </u>		H			-			·			·			
HLUNG CON			A.L.B.		<b>A</b> .	1 4 M		LOCCET	BY:		leff D	rew					
RILLER(S): _		iôuu	KODIN	son	<u>«</u>	MIKE	lorre	DATE:	2/28/	39 cH	ECKED B	Y R.C.E.					
		-							<del></del>								

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## BURKE ENGINEERS 1162 N. KRAEMER PL. ANAHEIM, CA 92806

LOCATION OF DODING	SHEET 1 OF 1									
LOCATION OF BORING:	JOB NO. 87-07-0006 CLIENT: BORING NO.									
Glendale/Burbank	PROJECT NAME: ITT Hozordous Waste Investigation 8-210									
LOCATION SKETCH	Hand Auger									
Building B - South Wall	DRILL RIG TYPE:									
, and an	SAMPLING METHOD: Grab Samples									
83'-6"	SAMPLE STORAGE METHOD: Cooler with Blue Ice									
80' 10' 8-210	WATER LEVEL STARY FINISH TIME TIME									
03 -1U-	TIME 9: 42 9: 42 A.M. 9: 57 A.M.									
DATUM:  ELEVATION:	DATE 1/11/89 START FINISH DATE DATE									
= 508	CASING DEPTH   1/11/89 1/11/89									
SAMPLE NUMBER SX INCHES SX INCHES (PPU) (PPU) DEPTH IN FEET SQIL TYPE	Silty clayer coil									
SAMPLE NUMBER STANDAGES STANDAGES STANDAGES STANDAGES SOIL TYPE SOIL TYPE	SOIL DESCRIPTION									
25	8									
210 5										
210-5 16 9:42 0	Silty clay (50% clay, 40% silt, 10% medium to coorse									
	sand); dry; grains of plagioclase, quartz and biotite flakes; malleable; black with light colored specks									
210-1' 32 9:45	(quartz and plagioclase).									
	Silty clay (75% clay, 25% silt); dry, very malleable;									
210-2' 20 9:47 CL	biotite flakes; no odor; dark brown.									
210-2 20 9:47										
	Silty clay (75% clay, 25% silt); dry; very malleable;									
L CL	biotite flakes; no odor; dark brown.									
210-3' 18 9:50 3										
	Silty clay (65% clay, 35% silt); dry, malleable; biotite									
	flakes visible; no odor; medium to dark brown.									
210-4' 30 9:53										
THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O	Silty sand (65% fine to medium—grained sand, 25% silt, 10% coarse sand to gravel size particles); grains									
SM	+1-1-1 or quartz, plagioclase, biotite flokes and larger									
	gravel—size pieces of granitic material; no odor;									
210-5' 31 9:57										
SM	Silty sond (65% fine to medium-grained sand, 35%									
	silt); dry; no odor; medium to dark brown.									
<del></del>										
8-										
SHILLING CONTRACTOR AL P										
RILLING CONTRACTOR: A.L.B.  RILLER(S): Mike Torres	LOGGED BY: Jeff Drew									
RILLER(S): Mike Torres	DATE: 1/11/89 DECKED BY R.C.E									
	ITTBNC16.DWC									

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AB		A.	L.	•	BL	JR 52 N	KE I KR.	E N A E M	G     E     9 2	N P O	E E L.	R S	
LOCATION	OF BORING	: .		-		A BOL	10.	CLIE	NT: =	CEO.	<u> </u>		EET 1_0F_2
	III	Glen	dale/E	Burb	ank	PROJE	87-07-0		-			BORI	NG NO.
LOCATION			<u> </u>			DRILLI	CT NAME: ITT	Hazai	rdous	Wast	e inve	stigation	8-211
	Building	8 -	South	. W	-11		RIG TYPE:	Hand	Auge	<u>r</u>			
1		<b>-</b>		, ,,,	J11	L	JNG METHOD:						
1			42'			SAMPL	LE STORAGE MI			Sampl			
	(	) )				<u> </u>		1 7	Cooler	with	Blue I		
8	99'-5"-	8-211				- W/	ATER LEVEL					START TIME	FINISH
· <u> </u>						-	TIME	10:00				10:00 A.M.	10:15 A.M.
DATUM:	<del></del>	ΙE	LEVATION	:			DATE	1/11/89				START	FINISH DATE
		<del></del>	<del></del>	∼	508'	CA!	SING DEPTH	N/POV	•			1/11/89	1/11/89
wa	£5	TLV READING (PPW)	AT OEPTH	l _	_	1	SUMPACE CON	UITION:	Dry	silty	clay		·
SAMPLE	BLOWS PER SIX INCHES	E A	, W	8	SOIL TYPE	GRAPHIC LOC					ESCRI	O TION	·
Ø ₹	P X	اج في	NOTED C	- 5	Z N.	8 3				JOIL D	ESCRI	PTION	
	<del>- </del>	+	<del> </del>					•					
211-5	5	24	10:00	0-	$\Box$	m	Citt. at-	/75~					
	1		1	-	∐ c∟		of quart	y (/5% z and	o clay	, 25% octose	silt);	isolated coor te flakes; hig	se grains
211-1		25	10:02		口。		malleable	e; no	odor;	dark	brown	to black.	ghly
	<del></del>	+		1 -	$\forall$	7777	F						
		<u> </u>					Same as diameter	Surfa	ce so	imple.	isolat	ed clasts up	to 1/4"
			1 1		口了			•					•
211-2	•	40	10:05	2-	H		Silty clay	(65%	clav	30%		5 medium to	
		1-			H CL		sunu); p	radioci	05e, (	Juartz	cnd l	siotite flakes:	coarse
244 7	.	-			Цщ		maileable	; no d	odor;	medi	um to	dark brown.	
211-3		50	10:07	3-	H		Silty olar	. /c==	2.2			_	
					Hcl		sand); p	lagiock	CIDY,	30% Juantz	Silt, 7	5 medium to piotite flakes;	coarse
211-4		45	10:10				malleable	; no c	odor;	medi	um to	dark brown.	
	<del>                                     </del>	-		4-	Н		•		• *				
	<del> </del>				H CL		Silty clay	(55%	clay,	45%	silt);	biotite flakes	
211-5'		62	10:15				molleable	; ло с	odor;	mediu	ım bro	wn.	
				5-	Η.		Sandy si	itu ela	v (40	<b>7</b> ala	700	- 21 - 22-	
	1						quartz, p	iodioci	038. J	KSDOr	and h	silt, 30% so iotite flakes;	nd);
<del></del>				l	_		molleabili	ty, ligh	nt to	media	um bro	own.	IOW
			1	6-									
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	1:			}	<b>-</b>		•		,.	•			
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ORILLING CONTRACTOR:	A.L.B.	LOCGED BY:
DRILLER(S):	Mike Torres	DATE: 1/11/89 CHECKED BY R.C.E.

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### A. BURKE ENGINEERS 162 N. KRAEMER PL. NAHEIM, CA 92806

LOCATION OF BORING:	SHEET 2 of 2								
	JOB NO. 87-07-0006 CLIENT: 300 BORING NO.								
Glendale/Burbank	PROJECT NAME: ITT Hozordous Waste Investigation 8-211								
LOCATION SKETCH	DRILLING METHOD: Hand Auger								
Building 8 — South Wall	DRILL RIG TYPE:								
4 440	SAMPLING METHOD: Grab Samples								
42'	SAMPLE STORAGE METHOD: Cooler with Blue Ice								
-\O_8-211	WATER LEVEL START FINISH TIME TIME								
89'-5"	TIME 10:00 10:00 A.M. 10:21 A.M								
DATUM:  ELEVATION:	DATE 2/28/89 STARY FINISH DATE DATE								
≈ 508.	CASING DEPTH 2/28/89 2/28/89								
MR RES NA FO	Dry clayey silt								
BLOWS PER SX INCHES SX INCHES (PPM) TLV READING (PPM) INFEET SOIL TYPE	SOIL DESCRIPTION								
A2 2 7.1	8								
211-6' 18 10:10 6-	Sandy clayey silt (60% silt, 25% clay, 15% fine to								
ML ML	medium—grained sand); dry; grains of plagioclase, quartz, bitite and feldspar; low plasticity; no odor;								
211-7' 18 10:15	medium brown.								
	Sandy class and const								
HML	Sandy clayey silt (60% silt, 25% clay, 15% fine to coarse—grained sand with isolated clasts); dry;								
	HULLI ISOloted Clasts up to 1/4" diameter of granitic								
211-8' 6 10:17	[[[]] Composition: grains of plagioclase quarty biotite and								
	feldspar; low plasticity: no odor: medium brown.								
211-9' 15 10:19	Sandy clayey silt (70% silt, 20% clay, 10% fine to								
<del></del>									
	granitic composition; grains of plagioclase, quartz, biotite and feldspar; low plasticity; no odor; medium								
211-10' 15 10:21 10	brown.								
I  H.,,									
	Sandy clayey silt (85% silt, 10% clay, 5% fine—grained								
	sand); grains of plagioclase, quartz, biotite and feld- spar; low plasticity; no odor; medium to light brown.								
	- The second to right brown.								
	Sondy clayey silt (85% silt, 10% clay, 5% fine-grained								
12-	1 30110), groins of piddloclase, quartz highly and fold-								
	spar; low plasticity; no odor; medium to light brown.								
13									
<del></del>									
—— <del> </del>									
14-									
DRILLING CONTRACTOR: A.L.B. LOGGED BY: Jeff Drew									
DRILLER(S): John Robinson & Mike Torres DATE: 2/28/89 CHECKED BY R.C.E.									
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# BURKE ENGINEERS 1182 N. KRAEMER PL. ANAHEIM, CA 92806

LOCATION O	F BORING					Lion :	o :	12						EETOF		
(		Class	d-1 - /^			JOB N	87-07-00	006 CUE	4				BORII	NG NO.		
Glendale/Burbank							PROJECT NAME: ITT Hozardous Waste Investigation 8-212									
							Hand Auger									
В	uilding	8 –	South	Wall			DRILL RIG TYPE:									
1 .			ئىسا	7'-9"			SAMPLING METHOD: Grab Samples									
		•	<b></b> ℃		1	SAMPL	SAMPLE STORAGE METHOD: Cooler with Blue Ice									
82'-8"							TER LEVEL					START		FINISH TIME		
							TIME	10:17				10:17 A.	м.	10:35 A.M.		
							DATE	1/11/89				START		FINISH DATE		
DATUM:		E	EVATION:	≈ 50	08'		SING DEPTH					1/11/89	9	1/11/89		
	<b>8</b> 2 W	õ	3				SURFACE CON	DITION:								
SAMPLE	BLOWS PER SIX INCHES	TLV READING (PPU) THE AT	AT OEP	E 3	ا بررا	일	· · · · · · · · · · · · · · · · · · ·			silty so						
NON	S ×		102	DEPTH IN FEET	ğ£	GRAPHIC LOC			S	OIL DI	ESCRII	PTION				
	65.01	کے	₽ 2	·								•				
212-5		50	10:17	0-		4]]]]]]]]]	Silty sor	ነ4 (አቦ	7	1500 C		) 	<b></b> .	<b>.</b> •		
	<u> </u>	1			<u></u>		Silty sand (80% coarse sand, 20% of plagioclase, quartz, kspar and b							silt); dry; grains		
747		<del> </del>	-	T	SM		malleabl	e; no	odor;	light	to m	edium bro	wn.			
212-1		50	10:20	,上	1 .											
							Silty cla	y (70%	clay	20%	silt,	10% coars	e s	and and		
		†			CL		gravei s	ize clo	ists);	dry, i	ndivid	ual clasts dark brow	up	to 1/8"		
		-		2		440		,		, 110 (	,uur ;	JUIK DEOW	11,			
212-2		45	10:23	-			Silty cla	y (70%	clay	, 25%	silt.	5% coarse	50	nd and		
				<u> </u>	CL		gravei s	IS CIO	sts u	p to 1	/8" (	diameter):	ve	ry		
212-3		30	10: 25	_  -			welleable	e; no	odor;	dark	brown	١,		·		
	<del> </del>	138	.0.25	3	1		Silty cla	y (65%	clay	. 30%	silt.	5% coarse	sa	nd):		
					CL		Silty clay (65% clay, 30% silt, 5% coarse grains of plagioclase, quartz and biotite individual granitic clasts up to 1/4" diam							(es:		
212-4		45	10:30	F			odor; m	er; no								
				<b>1</b>												
				-	CL		orgine o	y (657 f placi	clay	. 30%	silt, :	5% coarse	SO	nd);		
212-5		38	10: 35				grains of plagioclase, quartz and biotite fi individual granitic clasts up to 1/4" diame							r: no		
1	•			5		7///	odor; m	edium	brown	n.						
				H	CL		Sandy, s	ilty clo	y (50	0% cla	y, 30	% silt, 20%	% nr	nedium		
	<del></del>	-					to coars	e sand	1): ar	ains o	f aua	rtz planic	2010	se and		
		ļ ·		6		M	medium	brown.	iow n	uaneap	uity;	no odor;	ligh	t to		
				H		ľ			-							
				H												
				7									•			
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DRILLING CO	NTRACTOR:	A.L.B.			LOGOED BY:Jeff Drew											
DRILLER(S): Mike Torres							DATE: 1/11/89 CHECKED BY R.C.E									
						ē	UAIL:	-1-1-1	u	TEURED (	T R.C.E	-				
														ITTBNG17.DWG		

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A	B		A.	. L	•	1 A	1 6 N A	R 2 I H E	K E   N. K R   I M. C	EN	GIEF	N P	E E	RS			
LOCA	TON	OF BORING	:		<del></del> -	_		108	NO.	CUE	NT. C		<del>-</del>			FEET 1_ OF 1	
	J		Glen	ndale/l	Burt	an	k ·	1 1	I PZ-DZ-DODEI III II III III III III								
LOCA	TION !	SKETCH						DRILL	PROJECT NAME: ITT Hazardous Waste Investigation 8-214								
	В	Building	8 -	South	h W	ali		- 1	ORILL RIG TYPE:								
1		•			2'-6'	_		SAMP	SAMPLING METHOD: Grab Samples								
	1			<del>-</del>	2 -0	-	1	SAMP	LE STORAGE MI								
		-	<b>-</b>	$T^{Q_{a_{a}}}$	214			<u> </u>	ATER LEVEL		ooler	with	Blue I	CE	<u>:</u> _	50.000	
]		130	0'-11"-	-{				<del> </del>	TIME	10: 28		<del> </del>	-	TIME		FINISH TIME	
	<b></b>	<del></del>								1/13/89				10: 28 A.	м.	10: 40 A.M	
DATUM	l:		Ε	LEVATION	" ≈	: 50	08'	CA	SING DEPTH	1713/68		,		DATE		DATE	
		ex vs	ي	E	T			<u> </u>	SURFACE CON	DITION:		L	<u></u>	1/13/8	9	1/13/89	
<u> </u>		8.9	1 8 S	. ¥8	2	EFT	ע יי	일			Dr	y, sar	ndy, sil	ty, clay			
SAMPLE NUMBER BLOWS PER SX INCHES SX INCHES (PPM) INV READING (PPM) DEP TH IN FEET SOIL TYPE				CRAPHIC LOG			S	OIL D	ESCRI	PTION	•						
ļ		80 05	2	2								,					
214	-s		54	10:28	0.	_		777	Sandy, s	ilty clo	y (50	% cla	v. 302	silt, 202	,		
					1.	上	<u>.</u>		1 4.03 0:	Diagn	ICIO SE		ff7 on	d 1.000.		• , ,	
214-	_,,		150		1	Н	CL		diesel od	ri02(2	up to	178	alam	eter moli	eot	vidual ole; slight	
214-			62	10:30	1-	П		////	4								
			<u></u>			H	<u></u>		of quarts	(60%)	clay, Diagio	35%	silt, 5	% coarse	sar	nd); grains	
	1		1			Н	CL		brown.		piugio	CIUSE,	mone	able; no	odo	or, dork	
214-	-2'		66	10:33	2-	H											
		<u> </u>		0.00		日			Silty clay	(60%	clay,	35%	silt, 5	% coorse	son	d); grains	
21.4						日	CL		brown.	ana	piagio	ciose;	maile	oble; no	odo	r, dark	
214-	-3		66	0: 35	3-	Н											
						Я	CL		Silty clay	(60%	clay,	35%	silt, 5:	% coarse	san	d); grains	
214-	-4'		54	10:37		口			of quartz brown.	ana t	piagio	close;	malle	able; no	odo	r, dark	
	7				4-	H			*					4			
						Н	CL		Silty clay	(45%	clay,	45%	silt, 5%	る gravei−:	size	closts):	
214-	-5		64	10: 40		П			granitic g	ravei;	biotit	e flak	es; no	odor; m	edi	um brown.	
		<u>.                                    </u>		- 7	5-		f		•	·							
						H		.	•				,			1	
	$\dashv$					口							•				
	-				6			1									
	- 1			1		4		1								]	

DRILLING CONTRACTOR: A.L.B. LOGGED BY: Jeff Drew
DRILLER(S): Mike Torres DATE: 1/13/89 CHECKED BY R.C.E.

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COADON OF SORING  CICHONO OF SORING  CICHONO SECTOR  Building 8 - South Wolt  142'-4'  8-215  CICHONO SECTOR  Building 8 - South Wolt  142'-4'  8-215  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO SECTOR  CICHONO	B		Α.	L.	•	B 1 1	U 6 A	R 2 h H E	K E E	E N	GI	N P	E E	RS	
DRILLING METHOD: Hand Auger    SAMPLING METHOD: Hand Auger   Hand Auger	OCATION (			dole /F	2			1	- 87-07-M	ואחר			Č	80	ORING NO.
Building 8 - South Wall    DRILL RIC TYPE:   SAMPLING METHOD:   Grab Samples	LOCATION S	-	Olelli	ouie/ E	-	, ani		DRILL	NG METHOD	Hazar	dous	Wast	e Inves	stigation	8-215
SAMPLING WETHOD: Grab Somples   SAMPLE STORAGE WETHOD: Cooler with Blue Ice   WATER LEVEL   TIME   10:42   M. 10:42   M. 10:55 A.M.   DATE   1/13/69   M. 1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89	B	luildina	8 -	South	W	all				Hand	Auger				
SAMPLE STORAGE NETHOD: Cooler with Blue Ice   WATER LEVEL   TIME   10:42 A.M. 10:55 A.M.   10:55 A.M.   10:42 A.M. 10:55 A.M.   10:42 A.M.   10:55 A.M.   10:42 A.M.   10:55 A.M.   10:42 A.M.   10:55 A.M.   10:42 A.M.   10:55 A.M.   10:42 A.M.   10:55 A.M.   10:42 A.M.   10:55 A.M.   10:42 A.M.   10:42 A.M.   10:55 A.M.   10:42 A.M.   10:42 A.M.   10:55 A.M.   10:42 A.M.   10:42 A.M.   10:55 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:55 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42 A.M.   10:42									1		`cob (	S1		<del></del>	
MATERILEVEL   STARM   FINISH   TIME   10:42 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:42 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:55 A.M.   10:50 A.M.   10:55 A.M.   10:50 A.M.   10:55 A.M.   10:50 A.M.   10:55 A.M.   10:50 A.M.   10:55 A.M.   10:50 A.M.   10:55 A.M.   10:50 A.M.   10:55 A.M.   10:50 A.M.   10:55 A.M.   10:50 A.M.   10:50 A.M.   10:55 A.M.   10:50 A.M.   10:55 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:55 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:50 A.M.   10:5	1 1					4	ı	SAMP	LE STORAGE ME	TUAN.					
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SURFACE CONGINON:    1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13/89   1/13	CARING		191						DATE	1/13/89					
Dry, clayey, gravelly, silt  SOIL DESCRIPTION  Clayey, gravelly silt (40% silt, 40% coarse sand and gravel, 20% clay); grains of plagioclase, quartz and kspar; granitic clasts up to 1/4" diameter; not malleable; no odor; soil and most clasts pinkish—purple in color.  Silty clay (70% clay, 30% silt, less than 5% medium—grained sand soil diatite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL  Silty clay (55% clay, 45% silt, 5% medium—grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL  Silty clay (55% clay, 35% silt, 10% medium—grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL  Silty clay (55% clay, 35% silt, 10% medium—grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL  Silty clay (55% clay, 35% silt, 10% medium—grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL  Silty clay (55% clay, 45% silt, 5% medium—grained sand); grains of plagioclase and quarty as adeas and plagioclase and quarty as adeas and plagioclase and quarty as adeas and plagioclase and quarty as adeas.	DATOM:		1 161	<del>,</del>	<u>:</u> =	: 50	8'	CA	N .						
Clayey, gravelly silt (40% silt, 40% coarse sand and gravel, 20% clay); grains of plagioclase, quartz and kspar; granitic clasts up to 1/4" diameter; not malleable; no odor; soil and most clasts pinkish—purple in color.  CL Silty clay (70% clay, 30% silt, less than 5% medium—grained sands); very malleable; no odor; dark brown.  Silty clay (55% clay, 35% silt, 10% medium—grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL Silty clay (55% clay, 40% silt, 5% medium—grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL Silty clay (55% clay, 35% silt, 10% medium—grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL Silty clay (55% clay, 35% silt, 10% medium—grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL Silty clay (55% clay, 45% silt, 5% medium—grained sand); grains of plagioclase and quarty; accorder.	ugg	ឱ្តភិ	SNC SNC	<b>₹</b> 5	١,				SURFACE CON	DITION:	Dr	y, cla	yey, q	rovelly, silt	
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215-2' 36 10:47  CL Silty clay (55% clay, 35% silt, 10% medium-grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  Silty clay (55% clay, 40% silt, 5% medium-grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL Silty clay (55% clay, 35% silt, 10% medium-grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL Silty clay (55% clay, 35% silt, 10% medium-grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  Silty clay (55% clay, 45% silt, 5% medium-grained sand); grains of plagioclase and quarty, as odes.	215-1		30	10:45	1 -	П			purple in	color.				•	
215-2' 36 10:47  CL Silty clay (55% clay, 35% silt, 10% medium-grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL Silty clay (55% clay, 40% silt, 5% medium-grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL Silty clay (55% clay, 35% silt, 10% medium-grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL Silty clay (55% clay, 35% silt, 10% medium-grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL Silty clay (50% clay, 45% silt, 5% medium-grained sand); grains of plagioclase and quartz; as odes.						日	<u></u>		Silty clay	(70%	clay.	30%	silt. le	ss than 5%	medium-
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215-3' 36 10:50  CL Solity clay (55% clay, 40% silt, 5% medium-grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4"  CL Silty clay (55% clay, 40% silt, 5% medium-grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL Silty clay (55% clay, 35% silt, 10% medium-grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL Silty clay (50% clay, 45% silt, 5% medium-grained sand); grains of plagioclase and quartz; as order.	215-2		36	10.47	2-	++			Silty clay	(55%	clav.	35%	silf 10	7 medium	- project
215-3'  36 10:50  3		<del></del>		0. 77		H	~		Sono one	CIOSES	i): are	oins c	of auar	tz planiaci	ace kees
Silty clay (55% clay, 40% silt, 5% medium-grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL Silty clay (55% clay, 35% silt, 10% medium-grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL Silty clay (50% clay, 45% silt, 5% medium-grained sand); grains of plagioclase and quartz; no oder:	215 7'		7.5			日			diameter;	no oc	es; in dor; n	aıvıcu n <b>edi</b> ur	oi cias n brov	its up to 3 vn.	/4"
215-4' 56 10:53  CL Silty clay (55% clay, 35% silt, 10% medium-grained sond biotite flakes; individual clasts up to 3/4"  CL Silty clay (55% clay, 35% silt, 10% medium-grained sond and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL Silty clay (50% clay, 45% silt, 5% medium-grained sond); grains of plagioclase and quartz; no odor;	213-3	·	36	10:50	3-	口	Ė								
215-4 56 10:53  CL Silty clay (55% clay, 35% silt, 10% medium-grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  CL Silty clay (50% clay, 45% silt, 5% medium-grained sand); grains of plagioclase and quartz; no odor;						H	CL {		Source during	CIOS(S	): arc	JINS O	t ouar	tz planiaci	oee keese l
Silty clay (55% clay, 35% silt, 10% medium-grained sand and clasts); grains of quartz, plagioclase, kspar and biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  Silty clay (50% clay, 45% silt, 5% medium-grained sand); grains of plagioclase and quartz; no odor;	215-4		56	10:53		Н			Sug Digit	e noke	:S; in(		ol clas	ts up to 3	/4"
ond biotite flakes; individual clasts up to 3/4" diameter; no odor; medium brown.  Silty clay (50% clay, 45% silt, 5% medium-grained sond); grains of plagioclase and quarty; no odor;					٠-	H	E			٠.					
diameter; no odor; medium brown.  Silty clay (50% clay, 45% silt, 5% medium-grained sand); grains of plagioclase and quarty; as odor.	215-5'		52			口	CL {		Sinty clay	(55% )	clay,	35% s	silt, 10	7 medium-	-grained
Silty clay (50% clay, 45% silt, 5% medium-grained sond); grains of plagioclase and quarty; no oder	213-3		02	10: 33	۹	H			DIDGIG DIGGIC	e nake	:5; IN(	SIVIdu	oi cias	ts un to 3	ase, kspar /4"
Silty clay (50% clay, 45% silt, 5% medium-grained sond); grains of plagioclase and quarty; no odes:					<b>-</b>	H	E		diameter;	no od	or; n	rediun	n brow	m.	, '
						H'	CL		Silty clay	(50%	clay.	45% •	silt. 52	Medium≟a	project
7					6 -	H			Sondy, qr	aina ot	plog	ioclas	e and	quartz; no	odor;
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ALLING CONTRACTOR: A.L.B. LOGGED BY: Jeff Drew		•							LOGGED	BY:		Jeff D	rew		
DRILLER(S): Mike Torres DATE: 1/13/89 CHECKED BY R.C.E	DRILLER(S): _		Mik	e Tori	es				DATE: 1	/13/8	9_ OH	ECKED E	Y R.C.E.		

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# L. BURKE ENGINEERS 1162 N. KRAEMER PL. ANAHELM. CA. 92808

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LOCATION C						JOB N	87-07-00	ากรา	NT:		74		BORII	NG NO.
	TT	Glend	iole/B	urban	k	PROJE	CT NAME: ITT	Hozo	rdous	Waste	Inves	tigation	1	8-216
LOCATION S	KETCH					DRILLI	PROJECT NAME: ITT Hazardous Waste Investigation 8-216 DRILLING METHOD: Hand Auger							
8	uilding	8 –	South	Wali		ORILL	DRILL RIG TYPE:							
			. 31	-5° r			ING METHOD:		Grab !	Sample	88			
1			-		1	SAMPL	E STORAGE MI	THOO: (	Cooler	with	Blue I			<del></del>
		-	Г ^О в-2	216			TER LEVEL	`	1	W.C.I.	1	START		FINISH TIME
,	112	'-4"-	1				TIME	10:57			ļ	10:57 A		11:10 A.M.
<u> </u>	<del></del>		Y				DATE	1/13/89				START		FINISH
DATUM:		EL	EVATION:	≈ 50	08'	CA	SING DEPTH					1/13/8		1/13/89
		10	E				SURFACE CON	DITION:		<u> </u>	•	17.1070		17.0703
75	BLOWS PER SIX INCHES	V READING (PPM)	NOTED DEPTH	E 13	سرا	<u>ڀ</u>			Ury	claye	ey silt			·
SAMPLE	S X	3.5	EO EO	DEPTH IN FEET	žž	GRAPHIC LOG				SOIL D	ESCRI	PTION		
0,2	<b>4</b> 6	2	Š	_		8								
216-S	-	60	10:57	0-7-										
					-		Clayey si	It (50	% silt,	40%	clay,	10% coor	se s	sand);
					ML		flakes; n	e; grai	ns of	plagi	oclase,	quartz d	ond	biotite
216-1	·	40	11:00	<u>,                                   </u>	1	ЩЩ	,	0 000	i, ine	alum	brown.	•		
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DRILLING CO	NTRACTOR:		A.L.B.				1000	O BY: _		Jeff	Draw			
DRILLER(S):			ke To	res			S. Carrier Co.	. —			BY R.C.			<del></del> !
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	I	TT	Glend	dale/8	lurbar	ık	PROJE	87-07-00 CT NAME: ITT	Hazar	dous	Wast	e inves	1	8-217			
LOCAT	DON S	KETCH					ORILLI	NG METHOD:	Hand	Auger							
i	В	uilding l	B <b>–</b>	South	Wall		DRILL	DRILL RIG TYPE:									
1		•		•	'-2" ;		SAMPL	AMPLING METHOD: Grab Samples									
	ŀ			3,		. 1.	SAMPL	E STORAGE MI	- 5 (5.5			Blue I	<u> </u>				
1			_	TO 8-2				TER LEVEL		ooler	WILIT	Dine 1	STARY TIME	FINISH			
	119'-1"-							TIME	11:13			<del></del>	TIME 11:13 A.M.	FINISH TIME 11: 25 A.M.			
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DATUL	4:		EL	EVATION	: ≈ 5	08'	CA	SING DEPTH	1/13/89				START DATE	FINISH			
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- we	٠	E S	S	AT OEPTH	= =	1	ပ္	Dry silty clay									
4						38	\$ 8	SOIL DESCRIPTION									
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					]	CL		ium to l	ineter,	); no	odor;	some	what malleal	ole; med-			
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					1 'T	7		Silty cla	y (60%	clay,	35%	silt, 5	% medium t	o coorse			
<del></del>			<del>                                     </del>			CL		; sana); p	lagiocl	ose, (	quart	z and I	biotite flakes	no odor;			
			<u> </u>		,  -	-		malleable; dark to medium brown.									
217	-2'		58	11:17	2	7		Silty cla	Silty clay (70% clay, 30% silt); no odor; malleable								
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217	-3		56	11:20	3	1											
					<b> </b> -	CL		Silty clay	y (70%	clay,	30%	silt);	isolated clas	ts up to			
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-				20	4+	-											
					F	<b>ቯ</b>		Silty cla	y (55%	clay,	40%	silt, 5	% medium s	and); no			
217	-5'		56	11:25		CL		odor; m	alleable	e; me	dium	brown.	•	• • • •			
5-					-	/////		<b>4</b> – – – .									
						<b>d</b>	Silty clay (55% clay, 35% silt, 10% medium sand);						sand);				
					<u> </u>  -	CL		plagioclase, quartz and biotite; no odor; a				no odor; me	olleable;				
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DRILLING CONTRACTOR: _____ LOGGED BY: _____ Jeff Drew

DRILLER(S): _____ Mike Torres _____ DATE: 1/13/89 CHECKED BY R.C.E. _____

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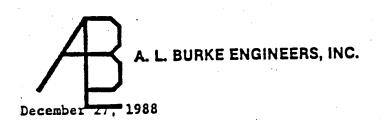
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# A. L. BURKE ENGINEERS 1162 N. KRAEMERPL

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LOCATI	ON SX	ETCH						DRILLING METHOD: Hand Auger								
	Ви	ilding 8	3 - 3	South	Wall		DRILL I	DRILL RIG TYPE:								
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			. 7	Г ^О в-2	218	İ		MATER LEVEL COOLER WITH Blue ICE								
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L			· · · · ·				<del>}</del>	DATE	1/13/89				START		FINISH DATE	
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		Silty clay (70% clay, 30% silt); no odor; very									· ·					
						Cr		maileable; dark brown to black.								
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-			-		4+	1			•		_					
					lF	]					35%	silt);	no odor;	mo	alleable;	
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l					5-	4	V////					<b>A</b> c -				
<b>}</b>		<del></del>				CL		Silty cla	y (60)	clay,	35%	silt,	% coors	e 50	nd);	
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1		NTRACTOR								<u> </u>						
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# APPENDIX B SUMP CLOSURE PLANS



Los Angeles County Department of Public Works Waste Management Division P. O. Box 4089 Los Angeles, CA 90051

Subject: ITT General Controls

Closures for Process Sumps, Building 8

#### Ladies/Gentlemen:

Enclosed is the closure plan for the referenced sumps detailing the investigation, the analytical results and the closure procedures recommended.

Copies of the as-received laboratory analyses and the chain of custody forms used to track the samples from field collection to laboratory analysis form a part of the enclosure.

If you need any additional information, or if you have questions, please contact Ms. Mollie Halewijn or me at the number below.

Sincerely,

Annie Laurie Burke, P. E.

President

Enclosure

cc: C. L. Dowdel, ITT Aerospace (w/enc.)

## CLOSURE OF SUMPS IN BUILDING 8

### ITT GENERAL CONTROLS DIVISION

GLENDALE PLANT

DECEMBER 1988

Prepared for:

ITT GENERAL CONTROLS DIVISION

811 ALLEN AVENUE GLENDALE, CA 91502

Prepared by:

A. L. BURKE ENGINEERS, INC.

1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806

#### 1.0 GENERAL

A. L. Burke Engineers, Inc. of 1162 N. Kraemer Place in Anaheim was requested by ITT General Controls to investigate three sumps inside and one sump outside Building 8: (1) to determine whether polychlorinated biphenyls (PCBs) were present in the concrete lining of the sumps and in the underlying soils.; (2) to recommend a method of closure as part of the dismantling of Building 8; and (3) to implement closure of the sumps. The size and location of each sump is shown on the accompanying drawings.

Building 8, built in 1951, was used for foundry (die-cast) operations. The building is no longer in use, die-cast operations having ceased in June, 1986. During those operations, a hydraulic oil containing PCBs was used in a closed system and recycled for reuse. When leakage occurred from hydraulic piping, some of the oil escaped onto the floor of the building and could have been washed into the sumps. Previous testing, described below, indicates that PCBs have penetrated into the upper part of the concrete lining the sumps.

A remedial action to decontaminate the building, and demolish the structure, is currently underway. The concrete floor of the building is being removed under this program. Since previous testing showed that the concrete had absorbed some of the PCB-containing oil in the upper few inches of the slab, the concrete is being treated as a hazardous waste, and is being shipped to the TSD facility of U. S. Ecology in Beatty, Nevada for disposal.

#### 2.0 SAMPLING PROCEDURES

On June 30 and July 9, 1987, A. L. Burke personnel supervised the drilling of concrete core samples from the bottom of each of the inside sumps, and obtained a water sample from the outside sump using a teflon bailer. The concrete core samples were placed in zip-lock bags, the water was transferred to a forty milliliter glass VOA bottle, and all were placed in a refrigerated ice chest for transport to the laboratory. On August 16, 1988, two borings beneath the outside sump were made using a hand auger. Undisturbed soil samples were taken and placed in clean glass VOA bottles, stored on blue ice in a covered container, and taken to the laboratory immediately after sampling.

#### 3.0 LABORATORY ANALYTICAL PROCEDURES

All samples were analyzed for polychlorinated biphenyls (PCBs) according to the EPA Test Methods SW-846 1982 Version. The analysis for PCBs conformed with EPA Method 8080 whereby a gas chromatograph equipped with an electron capture detector was used to detect polychlorinated biphenyls.

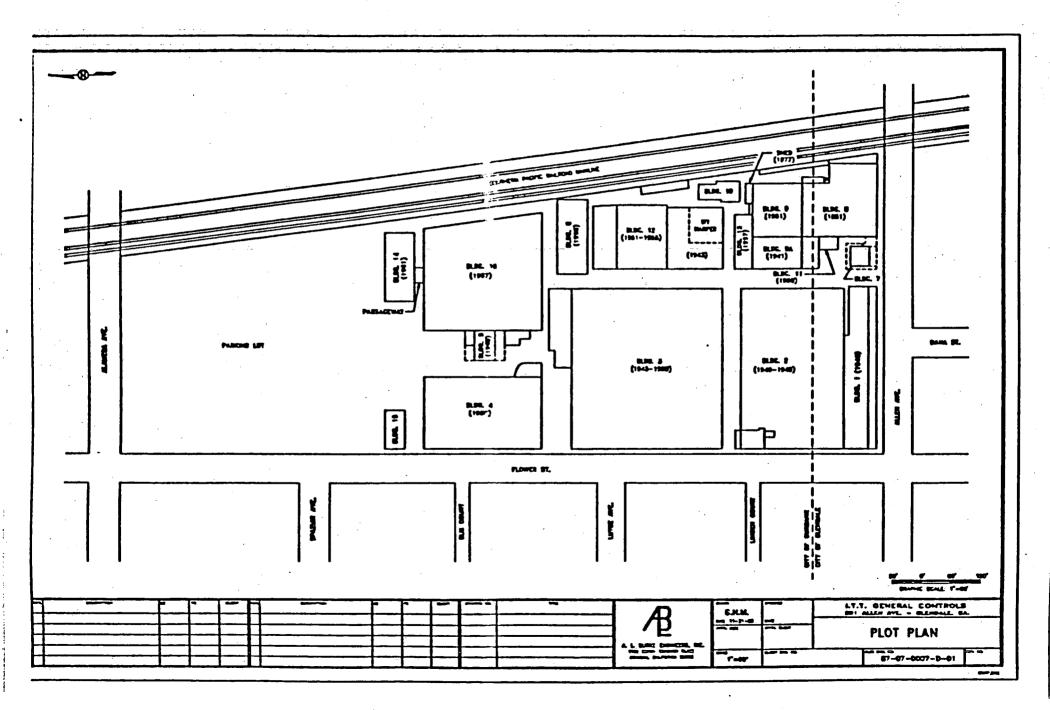
#### 4.0 FINDINGS

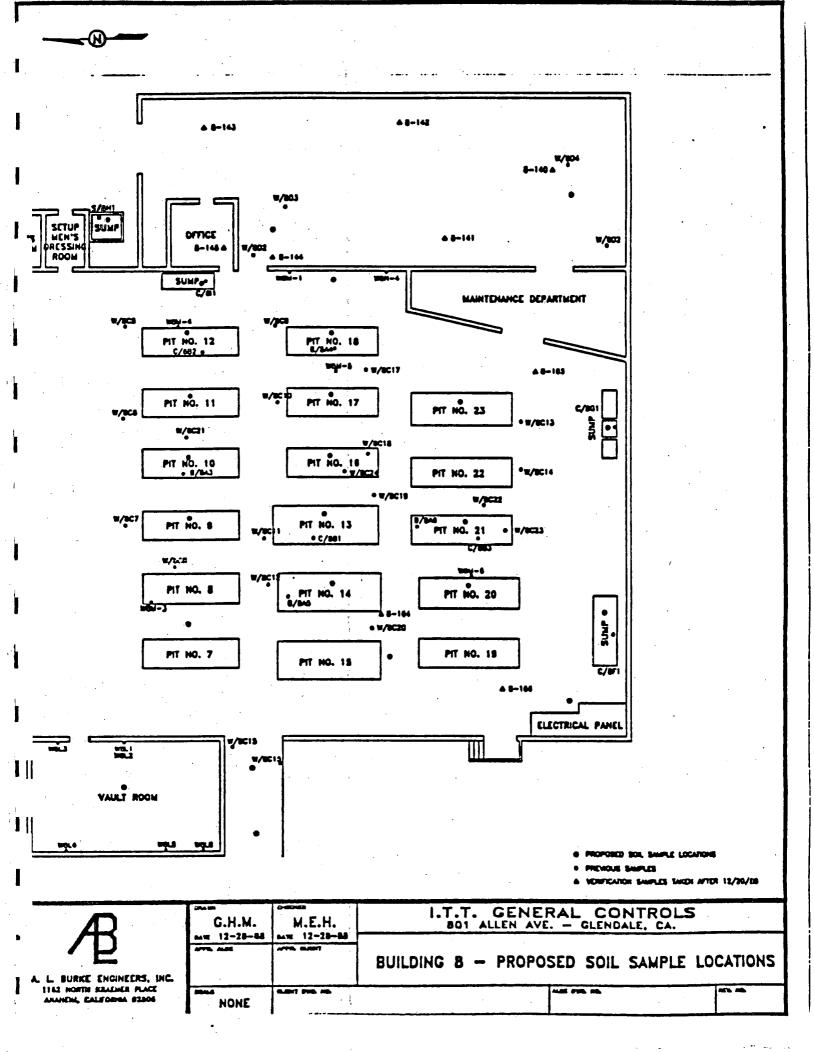
PCBs were detected in all the concrete cores, and traces in the water in the outside sump. The soil samples taken beside the outside sump show that the PCBs have not migrated through the concrete lining. Maximum concentrations of PCBs found in the concrete in each inside sump were 110 mg/kg, 240 mg/kg and 1100 mg/kg; the water contained 140 mg/l. The soil samples contained small traces of PCBs. The results of laboratory analyses are attached.

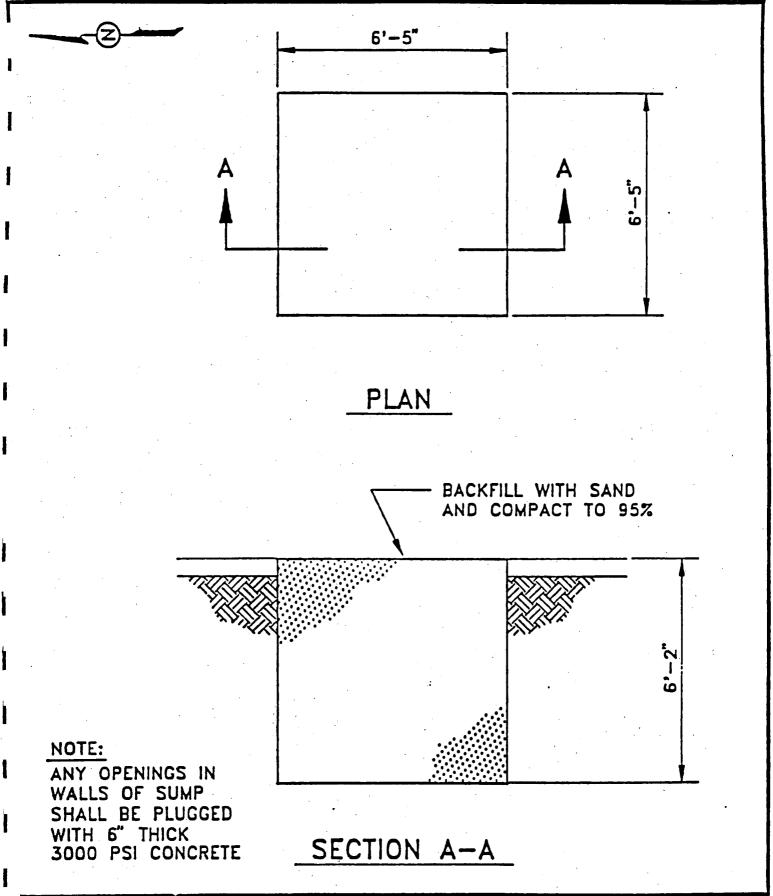
#### 5.0 CLOSURE PROCEDURES

Outside Sump. The liquid in the outside sump will be pumped out, placed in 55 gallon drums, and disposed of in accordance with State requirements. When the sump is emptied, a core of the concrete lining will be taken and analyzed for PCBs. The concrete will be removed, and, if it contains levels of PCBs, it will also be disposed of at the U. S. Ecology facility. A soil sample will be taken from beneath the sump and analyzed for PCBs. The previous borings under the sump showed no evidence of leakage. If the additional soil sampling confirms this, the excavation will then be backfilled with clean fill in 6-inch lifts and compacted to 95%. Should the soil show evidence of PCBs, the affected soil will be removed and cleanup confirmed by additional soil sampling prior to backfilling with clean material.

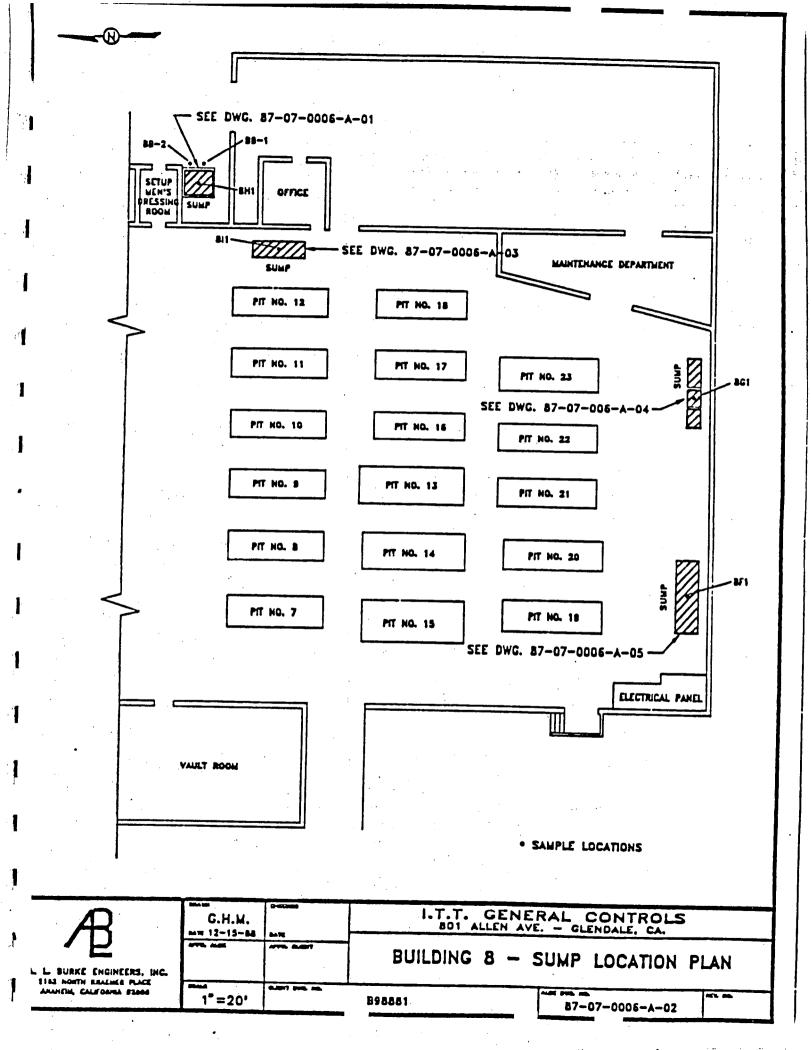
Inside Sumps. The concrete lining of the three inside sumps will be shipped with the concrete from the floor slab to U. S. Ecology. Soil samples will be taken from under the concrete and analyzed to ensure that the PCBs have not migrated through the concrete. If the soil shows no evidence of PCBs, as is expected based on previous testing, the sumps will be filled with clean fill in 6 inch lifts and compacted to the 95% level with the surrounding soil. If the soil shows evidence of PCBs, it will be removed, placed in drums and shipped as a hazardous material. The sump will then be filled as described above. None of the sumps will be capped with concrete at this time, as ITT intends to convert this section of the plant into a parking area. When this is done, the whole area will be graded and paved.

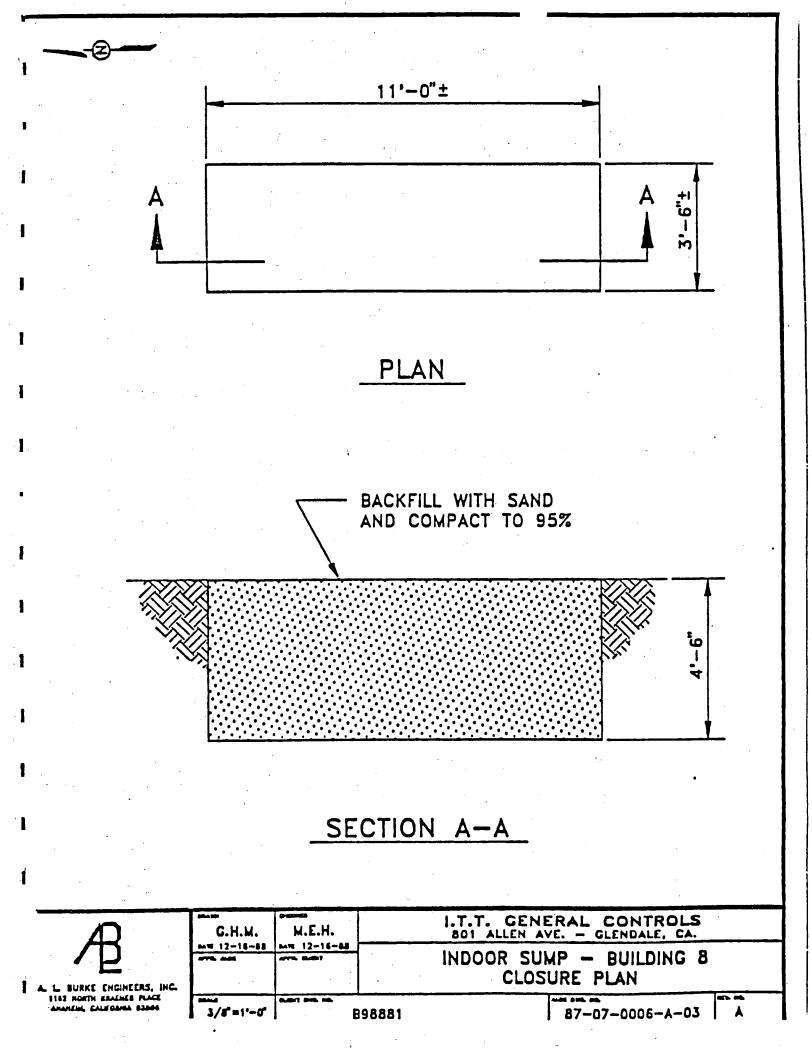


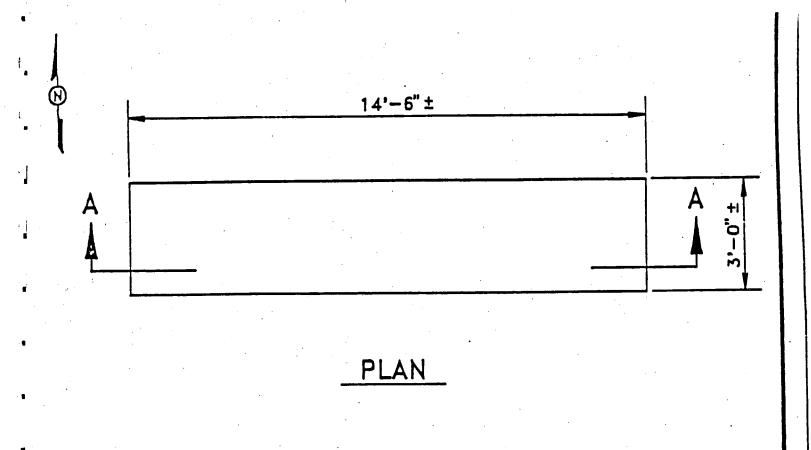


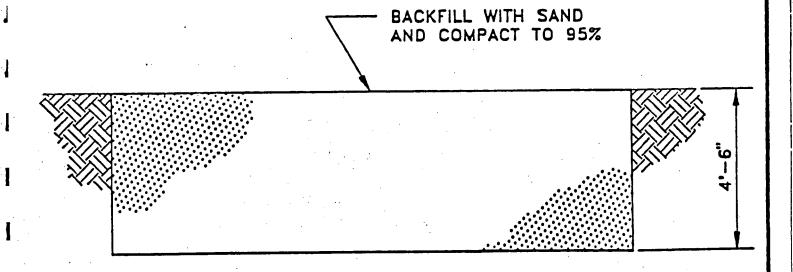


Ф	G.H.M.	M.E.H.	I.T.T. GENE 801 ALLEN AV	ERAL CONTROLS	
A L BURKE ENGINEERS, INC.	941 11-23-88 979 max	MR 11-23-88		IMP — BUILDING & URE PLAN	3
1162 NORTH KRAENER PLACE ANAMENI, CALBOANIA 82006	2/8=10	event bus us	98881	87-07-0006-A-01	Å



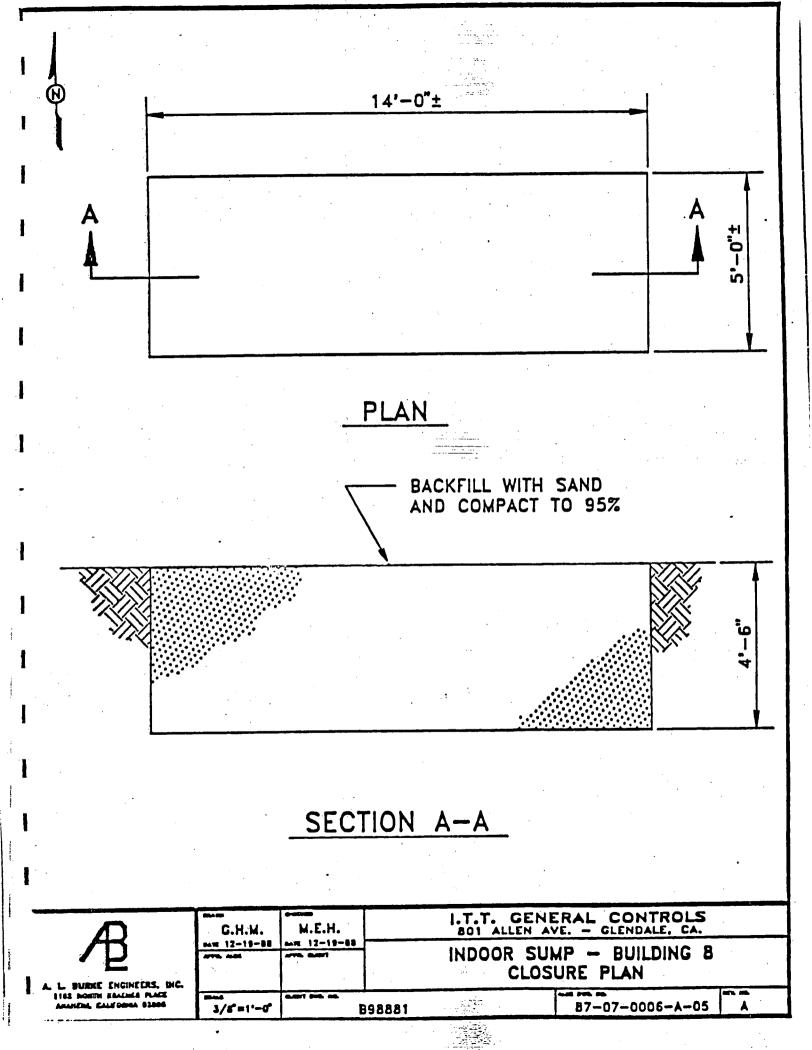






# SECTION A-A

E.H	T.T. GENERAL CONTROLS  1001 ALLEN AVE GLENDALE. CA.  1DOOR SUMP - BUILDING 8  CLOSURE PLAN
B98881	87-07-0006-A-04 A
2	E.H.  -16-88  -17



7440 Lincoln Way . Garden Grove, CA 92641 (213) 598-0458 • (714) 898-6370 • (800) LAB-1-CRL FAX: (714) 891-5917

December 15, 1988

A.L. BURKE 1162 North Kraemer Place Anaheim, CA 92806 ATTN: Ms. Anne L. Burke

ANALYSIS NO.: 832101-001/007 ANALYSES: EPA Method 8080 (PCB'S) DATE SAMPLED: 11/15/88 DATE SAMPLE REC'D: 11/16/88

PROJECT: ITT Bldg. #8

"Furnace/Patio Area"

Enclosed with this letter is the report on the chemical and physical analyses on the samples from ANALYSIS NO: 832101-001/007 shown above.

The samples were received by CRL in a chilled state, intact, and with the

Verbals were given December 12, 1988 at 12:00 P.M. to Ms. Kathy Lyden.

Please note that ND( ) means not detected at the detection limit expressed

REVIEWED

7440 Lincoln Way . Garden Grove, CA 92641 (213) 598-0458 • (714) 898-6370 • (800) LAB-1-CRL FAX: (714) 891-5917

## LABORATORY REPORT

A.L. BURKE

1162 North Kraemer Place

Anaheim, CA 92806

ATTN: Ms. Anne L. Burke

SAMPLE ID.: 8-101 Crane Motor

ANALYSIS NO.: 832101-001

ANALYSES: EPA Method 8080 (PCB'S)

DATE SAMPLED: 11/15/88

DATE SAMPLE REC'D: 11/16/88

DATE EXTRACTED: 11/21/88

DATE ANALYZED: 12/08/88

SAMPLE TYPE: Wipe

PROJECT: ITT Bldg. #8

"Furnace/Patio Area"

# EPA METHOD 8080 (PCB'S)

Parameters	Results in
Aroclor-1016	(Total ng/wipe)
Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254	ND(2,500.) ND(2,500.) ND(2,500.) ND(2,500.) 28,000.
Aroclor-1260	ND(2,500.) ND(2,500.)

7440 Lincoln Way ● Garden Grove, CA 92641 (213) 598-0458 ● (714) 898-6370 ● (800) LAB-1-CRL FAX: (714) 891-5917

#### LABORATORY REPORT

A.L. BURKE

1162 North Kraemer Place

Anaheim, CA 92806

ATTN: Ms. Anne L. Burke

SAMPLE ID.: 8-102 Crane Track

ANALYSIS NO.: 832101-002

ANALYSES: EPA Method 8080 (PCB'S)

DATE SAMPLED: 11/15/88

DATE SAMPLE REC'D: 11/16/88

DATE EXTRACTED: 11/21/88

DATE ANALYZED: 12/08/88 SAMPLE TYPE: Wipe

PROJECT: ITT Bldg. #8

"Furnace/Patio Area"

#### EPA METHOD 8080 (PCB'S)

Parameters		•	Results in
<u>rarameters</u>	•		<pre>(Total ng/wipe)</pre>
Aroclor-1016			MD(2 500 )
1 mag 1 am 1 2 2 2			ND(2,500.)

Aroclor-1221 Aroclor-1232 Aroclor-1343 ND(2,500.)

Aroclor-1242 Aroclor-1248 Aroclor-1254

ND(2,500.) Aroclor-1260 ND(2,500.)

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#### LABORATORY REPORT

A.L. BURKE

1162 North Kraemer Place

Anaheim, CA 92806

ATTN: Ms. Anne L. Burke

SAMPLE ID.: 8-103 Floor/Scraping

ANALYSIS NO.: 832101-007

ANALYSES: EPA Method 8080 (PCB'S)

DATE SAMPLED: 11/15/88

DATE SAMPLE REC'D: 11/16/88

DATE EXTRACTED: 11/21/88
DATE ANALYZED: 12/08/88

SAMPLE TYPE: Solid

PROJECT: ITT Bldg. #8

"Furnace/Patio Area"

#### EPA METHOD 8080 (PCB'S)

Results in
(Total ng/wipe)
ND(25,000.)
ND(25,000.)
ND(25,000.)
ND(25,000.)
230,000.
ND(25,000.)
ND(25,000.)

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#### LABORATORY REPORT

A.L. BURKE

1162 North Kraemer Place

Anaheim, CA 92806

ATTN: Ms. Anne L. Burke

SAMPLE ID.: 8-104 Shallow Pit/Scraping

ANALYSIS NO.: 832101-004

ANALYSES: EPA Method 8080 (PCB'S)

DATE SAMPLED: 11/15/88

DATE SAMPLE REC'D: 11/16/88

DATE EXTRACTED: 11/21/88

DATE ANALYZED: 12/08/88

SAMPLE TYPE: Solid PROJECT: ITT Bldg. #8

"Furnace/Patio Area"

#### EPA METHOD 8080 (PCB'S)

Results in
<u>(Total ng/wipe)</u>
ND (2)
ND(2,500.)
ND(2,500.)
ND(2,500.)
ND(2,500.)
190,000.
ND(2,500.)
ND(2,500.)

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#### LABORATORY REPORT

A.L. BURKE

1162 North Kraemer Place

Anaheim, CA 92806

ATTN: Ms. Anne L. Burke

SAMPLE ID.: 8-105 Metal Door

ANALYSIS NO.: 832101-005

ANALYSES: EPA Method 8080 (PCB'S)

DATE SAMPLED: 11/15/88

DATE SAMPLE REC'D: 11/16/88 DATE EXTRACTED: 11/21/88

DATE ANALYZED: 12/08/88

SAMPLE TYPE: Wipe

PROJECT: ITT Bldg. #8

"Furnace/Patio Area"

#### EPA METHOD 8080 (PCB'S)

Parameters
------------

Aroclor-1016 Aroclor-1221

Aroclor-1232

Aroclor-1242

Aroclor-1248

Aroclor-1254

Aroclor-1260

Results in (Total ng/wipe)

ND(2,500.)

ND(2,500.)

ND(2,500.)

ND(2,500.)

4,600.

ND(2,500.)

ND(2,500.)

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#### LABORATORY REPORT

A.L. BURKE

1162 North Kraemer Place

Anaheim, CA 92806

ATTN: Ms. Anne L. Burke

SAMPLE ID.: 8-106 Floor

ANALYSIS NO.: 832101-006

ANALYSES: EPA Method 8080 (PCB'S)

DATE SAMPLED: 11/15/88

DATE SAMPLE REC'D: 11/16/88

DATE EXTRACTED: 11/21/88
DATE ANALYZED: 12/08/88

SAMPLE TYPE: Wipe

PROJECT: ITT Bldg. #8

"Furnace/Patio Area"

#### EPA METHOD 8080 (PCB'S)

<u>Parameters</u>	Results in <a href="mailto:ling/wipe">(Total ng/wipe)</a>
Aroclor-1016	ND(2,500.)
Aroclor-1221	ND(2,500.)
Aroclor-1232	ND(2,500.)
Aroclor-1242	ND(2,500.)
Aroclor-1248	21,000.
Aroclor-1254	ND(2,500.)
Arcclor-1260	ND(2,500.)

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#### LABORATORY REPORT

A.L. BURKE

1162 North Kraemer Place

Anaheim, CA 92806

ATTN: Ms. Anne L. Burke

SAMPLE ID.: 8-107 SW Above Locker

ANALYSIS NO.: 832101-003

ANALYSES: EPA Method 8080 (PCB'S)

DATE SAMPLED: 11/15/88

DATE SAMPLE REC'D: 11/16/88

DATE EXTRACTED: 11/21/88

DATE ANALYZED: 12/08/88

SAMPLE TYPE: Wipe

PROJECT: ITT Bldq. #8

"Furnace/Patio Area"

#### EPA METHOD 8080 (PCB'S)

**Parameters** 

Aroclor-1016

Aroclor-1221

Aroclor-1232

Aroclor-1242

Aroclor-1248

Aroclor-1254

Aroclor-1260

Results in (Total ng/wipe)

. ND(250.)

ND(250.)

ND(250.)

ND(250.)

4,500.

ND(250.)

ND(250.)

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#### LABORATORY REPORT

A.L. BURKE

1162 North Kraemer Place

Anaheim, CA 92806

ATTN: Ms. Anne L. Burke

ANALYSIS NO.: 832101-001/007

ANALYSES: EPA Method 8080 (PCB'S)

DATE SAMPLED: 11/15/88

DATE SAMPLE REC'D: 11/16/88

SAMPLE TYPE: Wipe

PROJECT: ITT Bldg. #8

"Furnace/Patio Area"

#### QA/QC SUMMARY

<u>Date</u>	Parameter(method)	Average Spike Recovery%	Acceptable Range%	Relative Percent <u>Difference</u>	Acceptable Range%
11/21/88	Aroclor 1260 (EPA 8080-PCB'S)	.83	59-115	0	23

7440 Lincoln Way • Garden Grove, CA 92641 (213) 598-0458 • (714) 898-6370 • (800) LAB-1-CRL FAX: (714) 891-5917

December 15, 1988

A.L. BURKE 1162 North Kraemer Place Anaheim, CA 92806 ATTN: Ms. Anne Burke

ANALYSIS NO.: 832603-001/002 ANALYSES: EPA 8080 (PCB'S) DATE SAMPLED: 11/18/88 DATE SAMPLE REC'D: 11/21/88 PROJECT: ITT Bldg. #8

Enclosed with this letter is the report on the chemical and physical analyses on the samples from ANALYSIS NO: 832603-001/002 shown above.

The samples were received by CRL in a chilled state, intact, and with the chain-of-custody record attached.

Verbals were given December 12, 1988 at 12:00 P.M. to Ms. Kathy Lyden.

Please note that ND() means not detected at the detection limit expressed within the parentheses.

REVIEWED

APPROVED

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#### LABORATORY REPORT

A.L. BURKE

1162 North Kraemer Place

Anaheim, CA 92806

ATTN: Ms. Anne Burke

SAMPLE ID.: 8-108 Roof Surface

ANALYSIS NO.: 832603-001

ANALYSES: EPA 8080 (PCB'S)

DATE SAMPLED: 11/18/88

DATE SAMPLE REC'D: 11/21/88

DATE EXTRACTED: 11/28/88

DATE ANALYZED: 12/09/88

SAMPLE TYPE: Wipe

PROJECT: ITT Bldg. #8

#### EPA METTHOD 8080 (PCB'S)

Results in <u>Parameters</u>

Aroclor-1016 Aroclor-1221

Aroclor-1232

Aroclor-1242

Aroclor-1248

Aroclor-1254

Aroclor-1260

(total ng/wipe)

ND(250.)

ND(250.)

ND(250.)

ND(250.)

1,900.

ND(250.) ND(250.)

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#### LABORATORY REPORT

A.L. BURKE

1162 North Kraemer Place

SAMPLE ID.: 8-109 Roof Tie Rod

Anaheim, CA 92806

ATTN: Ms. Anne Burke

ANALYSIS NO.: 832603-002

ANALYSES: EPA 8080 (PCB'S)

DATE SAMPLED: 11/18/88

DATE SAMPLE REC'D: 11/21/88

DATE EXTRACTED: 11/28/88 DATE ANALYZED: 12/09/88

SAMPLE TYPE: Wipe

PROJECT: ITT Bldg. #8

#### EPA METHOD 8080 (PCB'S)

Parameters		Results in
		<pre>(total ng/wipe)</pre>
Aroclor-1016		
Aroclor-1221		ND(5,000.)
Aroclor-1232		ND(5,000.)
Aroclor-1242		ND(5,000.)
Aroclor-1248	* *	ND(5,000.)
Aroclor-1254	•	23,000.
Aroclor-1260		ND(5,000.)
		ND(5,000.)

2810 Bunsen Awenue ◆ Ventura, CA 93003 (805) 650-0546 ◆ (800) LAB-1-CRL FAX: (805) 648-2755

December 15, 1988

CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641

Attn: Technical Services 714/898/2125 ANALYSIS NO.: 8341130001-20 ANALYSES: EPA 608/8080 DATE SAMPLED: **/**/** DATE SAMPLE REC'D: 12/06/88 PROJECT: A. L. Burke

Enclosed with this letter is the report on the chemical and physical analyses on the samples from ANALYSIS NO: 8341130001/20 shown above.

The samples were received by CRL in a chilled state, intact, and with the chain-of-custody record attached.



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#### MATRIX SPIKE SAMPLE REPORT

Laboratory

Analysis #: 8341130001/12

QA/QC Summary

finalysis: BOBO	Conce	Accuracy oncentration Percent Recovery			<u>Precision</u>	
Matrix: Dil DC Lot: 8811288 Units: mg/kg	Spiked	Meas MS		MS	MSD (Limits)	
Analyte: Apoclor	1260 10	4.8	3.3	43	33 (59-115)	37 (0-23)

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#### LABORATORY CONTROL SAMPLE REPORT

Laboratory

Analysis #: 8341130001/12

QA/QC Summary

Analysis: 8080 Matrix: Oil	<u>Conce</u> Spiked	<u>ntrati</u> Measi			Accur. Cent R	ec <u>avery</u> ecy	<u> </u>	FF Lest cont
DC Lot: 8811288 Units: mg/kg		LCS1		LCS1	LCS2	(Limits)	RPD	(1 161 (5)
Analyte: Aroclor	1260 10	7.2	8.1	72	81	(59-115)	18	(0-23)

Laboratory

Aualysis #: 83411300013/20

DA/OC Summary

Analysis: 8080	<u>Conce</u>	<u>ntrati</u>	ឲ្យក	•	Accur ent R	ecovery	د	I. 1 - 5 1 5 1 5 1 5
Matrix: Solid DC Lot: 881128A Units: pg/ul (extr	Spiked	Meas				(Limits)		
Analyte: Aroclor 12	260 200	142	149	71	74	(59-115)	4.1	(024)

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CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641

12/13/88

Attn: Technical Services

714/898/2125

Project- A.L. Burke

Sample #: 8341130001

Received: 12/06/88

Type: Oil

Collector: Client

Sampling Date & Time: **/**/**

Method: Not Specified

I.D.: 832607-001v

CONSTITUENT	====METHOD====	==RESULT== Analyzed	===UNIT=== 12/7/88	===MDL====
				•
Aroclor - 1016	EPA 608/8080	ND <1	шg/kg	1
Aroclor - 1221	EPA 608/8080	ND <1	mg/kg	1
Aroclor - 1232	EPA 608/8080		mg/kg	ī
Aroclor - 1242	EPA 608/8080		шg/kg	ī
Aroclor - 1248	EPA 608/8080		mg/kg	ī
Aroclor - 1254	EPA 608/8080	ND <1		ī
Aroclor - 1260	EPA 608/8080		mg/kg	ī
• • • • • • • • • • • • • • • • • • • •	•			

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CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641

12/13/88

Attn: Technical Services

714/898/2125

Project- A.L. Burke

Sample #: 8341130002

Received: 12/06/88

Type: Oil

Collector: Client

Sampling Date & Time: **/**/**, ****

Method: Not Specified

I.D.: 832607-002v

	====METHOD====	==RESULT== Analyzed	===UNIT=== 12/7/88	===MDL====
Aroclor - 1016	EPA 608/8080	ND <1	mg/kg	. 1
Aroclor - 1221	EPA 608/8080	ND <1	ng/kg	1
Aroclor - 1232	EPA 608/8080	ND <1	mg/kg	1
Aroclor - 1242	EPA 608/8080	ND <1	mg/kg	1
Aroclor - 1248	EPA 608/8080	ND <1	mg/kg	1
Aroclor - 1254	EPA 608/8080		mg/kg	1
Aroclor - 1260	EPA 608/8080		wg/kg	1

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CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641

12/13/88

Attn: Technical Services

714/898/2125

Project- A.L. Burke

Sample #: 8341130003

Received: 12/06/88

Type: Oil

Collector: Client

Sampling Date & Time: **/**/**, ****

Method: Not Specified

I.D.: 832607-003v

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== = Analyzed :		===M)L====
Aroclor - 1016	EDA 60010000			
, , , , , , , , , , , , , , ,	EPA 608/8080	ND <1 r	ng/kg	1
Aroclor - 1221	EPA 608/8080	ND <1 p	no/ka	1
Aroclor - 1232	EPA 608/8080	ND <1 p		± ,
Aroclor - 1242	EPA 608/8080			
	· · · · · · · · · · · · · · · · · · ·	ND <1 u	ug/Kg	1
Aroclor - 1248	EPA 608/8080	· ND <1 u	ue/ke	1
Aroclor - 1254	EPA 608/8080	ND <1 u		
Aroclor - 1260	7			1
AIUCIUI - 1200	EPA 608/8080	15 ա	ug/kg	1

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CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641

12/13/88

Attn: Technical Services

714/898/2125

Type: Oil

Project- A.L. Burke

Sample #: 8341130004

Received: 12/06/88

Collector: Client

Sampling Date & Time: **/**/**,

Method: Not Specified

I.D.: 832607-004v

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed	===UNIT=== 12/7/88	===MDL====
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254 Aroclor - 1260	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <1 ND <1 ND <1 ND <1 ND <1 ND <1 ND <1 ND <1	mg/kg mg/kg mg/kg mg/kg	1 1 1 1 1

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CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641

12/13/88

Attn: Technical Services

714/898/2125

Project- A.L. Burke

Sample #: 8341130005

Received: 12/06/88

Type: Oil

Collector: Client

Sampling Date & Time: **/**/**

Method: Not Specified

I.D.: 832607-005v

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed	===UNIT=== 12/7/88	===MDL====
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254 Aroclor - 1260	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <1 ND <1 ND <1 ND <1 ND <1 ND <1 ND <1	mg/kg mg/kg mg/kg mg/kg wg/kg	1 1 1 1 1

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CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641

12/13/88

Attn: Technical Services

714/898/2125

Project- A.L. Burke

Sample #: 8341130006

Received: 12/06/88

Type: Oil

Collector: Client

Sampling Date & Time: **/**/**, ****

Method: Not Specified

I.D.: 832607-006v

	====METHOD====	==RESULT== Analyzed	===UNIT=== 12/7/88	===:IDL====
Aroclor - 1016	PD1 60040000			
	EPA 608/8080	ND <1	mg/kg	1
Aroclor - 1221	EPA 608/8080	ND <1	mg/kg	1
Aroclor - 1232	EPA 608/8080		mg/kg	. 1
Aroclor - 1242	EPA 608/8080		mg/kg	
Aroclor - 1248	EPA 608/8080		mg/kg	i
Aroclor - 1254	EPA 608/8080		mg/kg	1
Aroclor - 1260	EPA 608/8080		mg/kg	i

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CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641 12/13/88

Attn: Technical Services

714/898/2125

Project- A.L. Burke

Sample #: 8341130007 Collector: Client

Received: 12/06/88 Sampling Date & Time: **/**/**, **

Type: Oil Method: Not Specified

I.D.: 832607-007v

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed		===MDL====
				•
Aroclor - 1016	EPA 608/8080	ND <1	mg/kg	1
Aroclor - 1221	EPA 608/8080	ND <1	mg/kg	1
Aroclor - 1232	EPA 608/8080	ND <1	шg/kg	1
Aroclor - 1242	EPA 608/8080	ND <1	mg/kg	1
Aroclor - 1248	EPA 608/8080	ND <1	mg/kg	1
Aroclor - 1254	EPA 608/8080	ND <1	mg/kg	1
Aroclor - 1260	EPA 608/8080	20	mg/kg	. 1

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CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641

12/13/88

Attn: Technical Services

714/898/2125

Project- A.L. Burke

Sample #: 8341130008

Received: 12/06/88

Type: Oil

Collector: Client

Sampling Date & Time: **/**/**, ****

Method: Not Specified

I.D.: 832607-008v

-=======CONSTITUENT======= -EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed	===UNIT=== 12/8/88	===MDL====
Aroclor - 1016	EPA 608/8080	ND <1	mg/kg	1
Aroclor - 1221	EPA 608/8080	ND <1	mg/kg	ī
Aroclor - 1232	EPA 608/8080		mg/kg	1
Aroclor - 1242	EPA 608/8080		wg/kg	ំ រំ
Aroclor - 1248	EPA 608/8080		mg/kg	ī
Aroclor - 1254	EPA 608/8080		mg/kg	î
Aroclor - 1260	EPA 608/8080		mg/kg	1

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CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641

12/13/88

Attn: Technical Services

714/898/2125

Project- A.L. Burke

Sample #: 8341130009

Received: 12/06/88

Type: Oil

Collector: Client

Sampling Date & Time: **/**/**,

Method: Not Specified

I.D.: 832607-009v

	====METHOD====	==RESULT== Analyzed	===UNIT=== 12/8/88	===MDL====
Aroclor - 1016	EPA 608/8080	ND <1		. 1
Aroclor - 1221	EPA 608/8080	ND <1		1
Aroclor - 1232	EPA 608/8080	ND <1		ī
Aroclor - 1242	EPA 608/8080	ND <1		ī
Aroclor - 1248	EPA 608/8080	ND <1		1
Aroclor - 1254	EPA 608/8080	ND <1		1
Aroclor - 1260	EPA 608/8080		mg/kg	1

The Report Cover Letter is an integral part of this report.

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CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641 12/13/88

Attn: Technical Services

714/898/2125

Project- A.L. Burke

Sample #: 8341130010 Collector: Client

Received: 12/06/88 Sampling Date & Time: **/**/**, ****

Type: Oil Method: Not Specified

I.D.: 832607-010v

=======CONSTITUENT===================================	====METHOD====	==RESULT== Analyzed		===MDL====
				*•
Aroclor - 1016	EPA 608/8080	ND <1	mg/kg	. 1
Aroclor - 1221	EPA 608/8080	ND <1	mg/kg	1
Aroclor - 1232	EPA 608/8080	ND <1	mg/kg	.1
Aroclor - 1242	EPA 608/8080	ND <1	mg/kg	1
Aroclor - 1248	EPA 608/8080	ND <1	mg/kg	1
Aroclor - 1254	EPA 608/8080	ND <1	mg/kg	1
Aroclor - 1260	EPA 608/8080		mg/kg	1

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CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641

12/13/88

Attn: Technical Services

714/898/2125

Project- A.L. Burke

Sample #: 8341130011

Received: 12/06/88

Type: Oil

Collector: Client

Sampling Date & Time: **/**/**, ****

Method: Not Specified

I.D.: 832607-011v

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed		===NDL====
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <1 ND <1 ND <1 ND <1 ND <1	mg/kg mg/kg mg/kg mg/kg	1 1 1 1
Aroclor - 1260	EPA 608/8080	ND <1 32	mg/kg mg/kg	1

The Report Cover Letter is an integral part of this report.

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without authorization is prohibited.

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CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641 12/13/88

Attn: Technical Services

714/898/2125

Project- A.L. Burke

------

Sample #: 8341130012

Received: 12/06/88

Type: Oil

Collector: Client

Sampling Date & Time: **/**/**, **

Method: Not Specified

I.D.: 832607-012v

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed		===MDL====
Aroclor - 1016	EPA 608/8080	ND <1	mg/kg	1
Aroclor - 1221	EPA 608/8080		mg/kg	1
Aroclor - 1232	EPA 608/8080	ND <1	mg/kg	1
Aroclor - 1242	EPA 608/8080	ND <1	mg/kg	1
Aroclor - 1248	EPA 608/8080	ND <1	шg/kg	1
Aroclor - 1254	EPA 608/8080	ND <1	mg/kg	1
Aroclor - 1260	EPA 608/8080	ND <1	mg/kg	1

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CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641 12/13/88

Attn: Technical Services

714/898/2125

Project- A.L. Burke

Sample #: 8341130013 Collector: Client

Received: 12/06/88 Sampling Date & Time: **/**/**

Type: Solid Method: Not Specified

I.D.: 832607-013v

-EPA 608/8080 (PCBs only)-	====method====		===UNIT=== 12/11/88	===MD[====
****				
Aroclor - 1016	EPA 608/8080	ND <250	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <250	ng/wipe	•
Aroclor - 1232	EPA 608/8080	ND <250	ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <250	ng/wipe	•
Aroclor - 1248	EPA 608/8080	10000	ng/wipe	
Aroclor - 1254	EPA 608/8080		ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <250	ng/wipe	

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CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641

12/13/88

Attn: Technical Services

714/898/2125

Project- A.L. Burke

Sample #: 8341130014

Received: 12/06/88

Type: Solid

Collector: Client

Sampling Date & Time: **/**/**, ****

Method: Not Specified

I.D.: 832607-014v

-EPA 608/8080 (PCBs only)-	====METHOD====		===UNIT=== 12/11/88	===MDL====
4 . 3				
Aroclor - 1016	EPA 608/8080	ND <250	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <250	ng/wipe	
Aroclor - 1232	EPA 608/8080		ng/wipe	
Aroclor - 1242	EPA 608/8080		ng/wipe	•
Aroclor - 1248	EPA 608/8080		ng/wipe	
Aroclor - 1254	EPA 608/8080		ng/wipe	•
Aroclor - 1260	EPA 608/8080		ng/wipe	•

Enseco -

# CRL Environmental - South Coast

7440 Lincoln Way • Garden Grove, CA 92641 (213) 598-0458 • (714) 898-6370 • (800) LAB-1-CRL FAX: (714) 891-5917

## LABORATORY REPORT

A.L. BURKE

1162 North Kraemer Place

Anaheim, CA 92806 ATTN: Ms. Anne Burke ANALYSIS NO.: 832603-001/002 ANALYSES: EPA 8080 (PCB'S)

DATE SAMPLED: 11/18/88

DATE SAMPLE REC'D: 11/21/88

SAMPLE TYPE: Wipe PROJECT: ITT Bldg. #8

<u>Date</u>	Parameter(method)	Average Spike Recovery%	Acceptable Range%	Relative Percent Difference	Acceptable Range%
11/28/88	Aroclor 1260 (EPA 8080-PCB'S)	78	59-115	1	23

7440 Lincoln Way • Garden Grove, CA 92641 (213) 598-0458 • (714) 898-6370 • (800) LAB-1-CRL FAX: (714) 891-5917

December 14, 1988

A.L. BURKE 1162 North Kraemer Place Anaheim, CA 92806 ATTN: Ms. Anne L. Burke

ANALYSIS NO.: 832704-001

ANALYSES: PCB'S

DATE SAMPLED: 11/20/88

DATE SAMPLE REC'D: 11/22/88

PROJECT: ITT

Enclosed with this letter is the report on the chemical and physical analyses on the sample from ANALYSIS NO: 832704-001 shown above.

The sample was received by CRL in a chilled state, intact, and with the chain-of-custody record attached.

Solid sample is reported on an "as received" basis.

Verbals were given December 12, 1988 at 12:00 P.M. to Ms. Kathy Lyden.

Please note that ND( ) means not detected at the detection limit expressed within the parentheses.

REVIEWED

APPROVED

7440 Lincoln Way • Garden Grove, CA 92641 (213) 598-0458 • (714) 898-6370 • (800) LAB-1-CRL FAX: (714) 891-5917

#### LABORATORY REPORT

A.L. BURKE 1162 North Kraemer Place Anaheim, CA 92806

ATTN: Ms. Anne L. Burke

SAMPLE ID.: 8-115 Transformer

ANALYSIS NO.: 832704-001

ANALYSES: PCB'S

DATE SAMPLED: 11/20/88

DATE SAMPLE REC'D: 11/22/88
DATE FYTRACTED: 11/22/88

DATE EXTRACTED: 11/28/88
DATE ANALYZED: 12/08/88

SAMPLE TYPE: Solid

PROJECT: ITT

# POLYCHLORINATED BIPHENYLS (PCB'S)

<u>Parameters</u>	Results ir <u>(mg/kg)</u>
Aroclor-1016	ND (2.)
Aroclor-1221	ND(1.)
Aroclor-1232	ND(1.)
·	ND(1.)
Aroclor-1242	ND(1.)
Aroclor-1248	· · · · · · · · · · · · · · · · · · ·
Aroclor-1254	17.
	ND(1.)
Aroclor-1260	ND(1.)

NOTE: Higher detection limits due to sample matrix.

7440 Lincoln Way • Garden Grove, CA 92641 (213) 598-0458 • (714) 898-6370 • (800) LAB-1-CRL FAX: (714) 891-5917

## LABORATORY REPORT

A.L. BURKE 1162 North Kraemer Place Anaheim, CA 92806 ATTN: Ms. Anne L. Burke

ANALYSIS NO.: 832704-001

ANALYSES: PCB'S

DATE SAMPLED: 11/20/88

DATE SAMPLE REC'D: 11/22/88

SAMPLE TYPE: Solid

PROJECT: ITT

		Average Spike	Acceptable	Relative Percent	Acceptable
<u>Date</u>	Parameter (method)	Recovery%	Range%	Difference	
11/28/88	Aroclor 1260	78	59-115	<b>1</b> .	23

7440 Lincoln Way • Garden Grove, CA 92641 (213) 598-0458 • (714) 898-6370 • (800) LAB-I-CRL FAX: (714) 891-5917

December 19, 1988

A.L. BURKE ENGINEERS 1162 North Kraemer Place Anaheim, CA 92806 ATTN: Ms. Anne Burke

ANALYSIS NO.: 833713-001 ANALYSES: EPA Method 8080 (PCB's) DATE SAMPLED: 11/29/88 DATE SAMPLE REC'D: 12/02/88 PROJECT: ITT Bldg. 8

Enclosed with this letter is the report on the chemical and physical analyses on the sample from ANALYSIS NO: 833713-001 shown above.

The sample was received by CRL in a chilled state, intact, and with the chain-of-custody record attached.

Verbals were given December 13, 1988 at 10:40 A.M. to Ms. Anne Burke.

Please note that ND( ) means not detected at the detection limit expressed within the parentheses.

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#### LABORATORY REPORT

A.L. BURKE ENGINEERS

1162 North Kraemer Place

Anaheim, CA 92806 ATTN: Ms. Anne Burke

Sample ID: 8-132 Decon Ramp

ANALYSIS NO.: 833713-001

ANALYSES: EPA Method 8080 (PCB's)

DATE SAMPLED: 11/29/88

DATE SAMPLE REC'D: 12/02/88

DATE EXTRACTED: 12/07/88
DATE ANALYZED: 12/12/88

SAMPLE TYPE: Wipe PROJECT: ITT Bldq. 8

# POLYCHLORINATED BIPHENYLS (PCB'S)

Da	Results in
<u>Parameters</u>	(Total ng/wipe)
Aroclor-1016	
	ND(12,000.)
Aroclor-1221	ND(12,000.)
Aroclor-1232	ND(12,000.)
Aroclor-1242	
	ND(12,000.)
Aroclor-1248	290,000.
Aroclor-1254	ND(12,000.)
Aroclor-1260	· · · · · · · · · · · · · · · · · · ·
VIOCIOI-1500	ND(12,000.)

Note: Higher detection limits due to sample matrix.

2810 Bunsen Avenue • Ventura, CA 93003 (805) 650-0546 • (800) LAB-1-CRL FAX: (805) 648-2755

CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641 12/13/88

Attn: Technical Services

714/898/2125

Project- A.L. Burke

Sample #: 8341130015

Received: 12/06/88

Type: Solid

Collector: Client

Sampling Date & Time: **/**/**, ****

Method: Not Specified

I.D.: 832607-015v

-EPA 608/8080 (PCBs only)-	====METHOD====		===UNIT=== 12/11/88	===MDL====
Aroclor - 1016	EPA 608/8080	ND <250	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <250	ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <250	ng/wipe	_
Aroclor - 1242	EPA 608/8080	ND <250	ng/wipe	•
Aroclor - 1248	EPA 608/8080	8300	ng/wipe	
Aroclor - 1254	EPA 608/8080	ND <250	ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <250	ng/wipe	•

2810 Bunsen Avenue • Ventura, CA 93003 (805) 650-0546 • (800) LAB-1-CRL FAX: (805) 648-2755

CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641

12/13/88

Attn: Technical Services

714/898/2125

Type: Solid

Project- A.L. Burke

Sample #: 8341130016

Received: 12/06/88

Collector: Client

Sampling Date & Time: **/

Method: Not Specified

I.D.: 832607-016v

	====METHOD====		===UNIT=== 12/11/88	===MDL====
Aroclor - 1016	EPA 608/8080	ND <250	ng/wipe	
Aroclor - 1221	EPA 608/8080		ng/wipe	
Aroclor - 1232	EPA 608/8080		ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <250	ng/wipe	•
Aroclor - 1248	EPA 608/8080	8800	ng/wipe	•
Aroclor - 1254	EPA 608/8080	ND <250	ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <250	ng/wipe	

2810 Bunsen Avenue • Ventura, CA 93003 (805) 650-0546 • (800) LAB-1-CRL FAX: (805) 648-2755

CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641

12/13/88

Attn: Technical Services

714/898/2125

Project- A.L. Burke.

Sample #: 8341130017

Received: 12/06/88

Type: Solid

Collector: Client

Sampling Date & Time: **/**/**,

Method: Not Specified

I.D.: 832607-017v

=======CONSTITUENT======= ==== ==== === -EPA 608/8080 (PCBs only)-

==RESULT== ===UNIT=== ===MDL====

Analyzed 19' 8

Aroclor - 1016 EPA 608/8080 Aroclor - 1221 EPA 600'

Aroclor - 1232

Aroclor - 1242

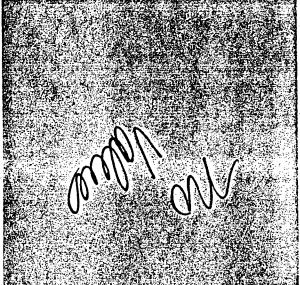
Aroclor - 1248

Aroclor - 1254

Aroclor - 1260

E.





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CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641

12/13/88

Attn: Technical Services

714/898/2125

Project- A.L. Burke

Sample #: 8341130018

Received: 12/06/88

Type: Solid

Collector: Client

Sampling Date & Time: **/**/**, ****

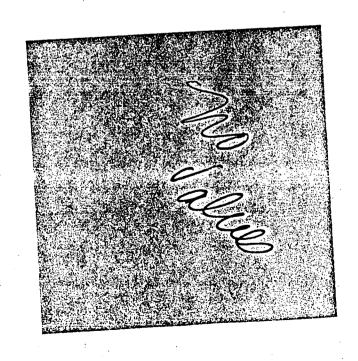
Method: Not Specified

I.D.: 832607-018v

Aroclor - 1242 Aroclor - 1248

Aroclor - 1254

Aroclor - 1260



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CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641

12/13/88

Attn: Technical Services

714/898/2125

Project- A.L. Burke

Sample #: 8341130019

Received: 12/06/88

Type: Solid

Collector: Client

Sampling Date & Time: **/**/**, ****

Method: Not Specified

I.D.: 832607-019v

	====METHOD====	==RESULT== Analyzed	===UNIT=== 12/11/88	===MDL====
Aroclor - 1016	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1248	EPA 608/8080	92000	ng/wipe	•
Aroclor - 1254	EPA 608/8080	ND <2500		
Aroclor - 1260	EPA 608/8080	ND <2500		

2810 Bunsen Avenue • Ventura, CA 93003 (805) 650-0546 • (800) LAB-1-CRL FAX: (805) 648-2755

CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641

12/13/88

Attn: Technical Services

714/898/2125

Project- A.L. Burke

Sample #: 8341130020

Received: 12/06/88

Type: Solid

Collector: Client

Sampling Date & Time: **/**/**, ****

Method: Not Specified

I.D.: 832607-020v

-EPA 608/8080 (PCBs only)-	====METHOD====		===UNIT=== 12/11/88	===MDL====
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254 Aroclor - 1260	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <10000 ND <10000 ND <10000 ND <10000 250000 ND <10000 ND <10000	ng/wipe ng/wipe ng/wipe ng/wipe ng/wipe	

Reviewed

Approved

The Report Cover Letter is an integral part of this report.

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#### LABORATORY REPORT

A.L. BURKE ENGINEERS
1162 North Kraemer Place

Anaheim, CA 92806 ATTN: Ms. Anne Burke ANALYSIS NO.: 833713-001

ANALYSES: EPA Method 8080 (PCB's)

DATE SAMPLED: 11/29/88

DATE SAMPLE REC'D: 12/02/88

SAMPLE TYPE: Wipe PROJECT: ITT Bldg. 8

<u>Date</u>	<pre>Parameter(method)</pre>	Average Spike Recovery%	Acceptable Range%	Relative Percent <u>Difference</u>	Acceptable Range%
12/07/88	Aroclor 1260 (EPA 8080 PCB's)	84	59-115	8	23

7440 Lincoln Way . Garden Grove, CA 92641 (213) 598-0458 • (714) 898-6370 • (800) LAB-1-CRL FAX: (714) 891-5917

January 25, 1989

A.L. BURKE ENGINEERS 1162 North Kraemer Place Anaheim, CA 92806 ATTN: Ms. Anne Burke

ANALYSIS NO.: 835405-001 ANALYSES: Miscellaneous DATE SAMPLED: 12/13/88 DATE SAMPLE REC'D: 12/19/88

PROJECT: 87-07-0006 ITT Bldg. 8

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Enclosed with this letter is the report on the chemical and physical analyses on the sample from ANALYSIS NO: 835405-001 shown above.

The sample was received by CRL in a chilled state, intact, and with the chain-of-custody record attached.

Solid samples are reported on an "as received" basis.

Verbals for EPA Methods 8240 and 8010 were given January 10, 1989 at 8:45 A.M. to Mr. Robert Burke. Results for CAM Metals (TTLC & STLC) and EPA Method 9040 were faxed on January 20, 1989 at 8:40 A.M. to Ms. Anne Burke.

Please note that ND( ) means not detected at the detection limit expressed within the parentheses.

The Report Cover Letter is an integral part of this report.



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# LABORATORY REPORT

A.L. BURKE ENGINEERS

1162 North Kraemer Place

Anaheim, CA 92806

ATTN: Ms. Anne Burke

Sample ID: 8-133 Southwall Wash

Tank Sludge

ANALYSIS NO.: 835405-001

ANALYSES: CAM Metals (TTLC)

DATE SAMPLED: 12/13/88

DATE SAMPLE REC'D: 12/19/88

DATE ANALYZED: 01/17-19/89

SAMPLE TYPE: Solid

PROJECT: 87-07-0006

ITT Bldg. 8

The following analytical determinations were conducted according to the guideline set forth in the California Administrative Code, Title 22, Chapter 30, Article II (January 12, 1985). The analyses were performed on a total sample digestion.

•			CALI	FORNIA	
Parameters	<u>METHODS</u>	TTLC RESULTS	ADMINISTRATIV	E CODE STANI	DARD
		<u>in mg/kg</u>	STLC, in mg/L	TTLC. in me	7/kg
Antimony, Total	EPA 6010	3.81	15.	500.	27. V.A
Arsenic, Total	EPA 7061	1.8	<b>5.</b> ²		1
Barium, Total	EPA 6010	173.		500.	- 1
Beryllium, Total	EPA 6010	0.4	100.	10,000.	1
Cadmium, Total	EPA 6010		0.75	75.	1
Chromium, Tri.		18.	1.	100.	ı
Chromium, Hex.	EPA 6010	125.	560.	2,500.	i
Cobal+ Matal	EPA 7196	ND(1.)	5.	500.	1
Cobalt, Total	EPA 6010	7.	80.	8,000.	
Copper, Total	EPA 6010	1,996.	25.		1
Lead, Total	EPA 6010	300.		2,500.	ľ
Mercury, Total	EPA 7471	0.13	5.	1,000.	i
Molybdenum, Total	EPA 6010		0.2	20.	1
Nickel, Total		22.	350.	3,500.	. [
Selenium, Total	EPA 6010	36.	20.	2,000.	].
Cilian makel	EPA 7741	ND(0.1)	1.	100.	ı
Silver, Total	EPA 6010	1.22	5.		
Thallium, Total	EPA 7840	ND(0.3)		500.	ŀ
Vanadium, Total	EPA 6010		7.	700.	- 1
Zinc, Total		5.24	24.	2,400.	- 1
,	EPA 6010	4,281.	250.	5,000.	

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#### LABORATORY REPORT

A.L. BURKE ENGINEERS 1162 North Kraemer Place Anaheim, CA 92806

ATTN: Ms. Anne Burke

Sample ID: 8-133 Southwall Wash

Tank Sludge

ANALYSIS NO.: 835405-001 ANALYSES: EPA Method 8240

DATE SAMPLED: 12/13/88

DATE SAMPLE REC'D: 12/19/88

DATE ANALYZED: 12/29/89

SAMPLE TYPE: Solid PROJECT: 87-07-0006

ITT Bldg. 8

# EPA METHODS 624/8240 VOLATILE ORGANICS

	(ug/kg)		(ug/kg)
Chloromethane	ND(100.)	1,2-Dichloropropane	ND(50.)
Bromomethane	ND(100.)	Trans-1,3-Dichloropropene	ND(50.)
Vinyl Chloride	ND(100.)	Trichloroethene	ND(50.)
Chloroethane	ND(100.)	Dibromochloromethane	ND(50.)
Methylene Chloride	350.	1,1,2-Trichloroethane	ND(50.)
Acetone	300.	Benzene	220.
Carbon Disulfide	ND(50.)	cis-1,3-Dichloropropene	ND(50.)
1,1-Dichloroethene	ND(50.)	2-Chloroethylvinyl ether	ND(100.)
1,1-Dichloroethane	ND(50.)	Bromoform	ND(50.)
Trans-1,2-Dichloroethene	ND(50.)	4-Methyl-2-Pentanone	ND(100.)
Chloroform	ND(50.)	2-Hexanone	ND(100.)
	ND(50.)	Tetrachloroethene	ND(50.)
1,2-Dichloroethane	ND(100.)	1,1,2,2-Tetrachloroethane	•
2-Butanone	ND(50.)	Toluene	1,500.
1,1,1-Trichloroethane		Chlorobenzene	ND(50.)
Carbon Tetrachloride	ND(50.)		360.
Vinyl Acetate	ND(100.)	Ethylbenzene	
Bromodichloromethane	ND(50.)	Styrene	ND(50.)
		Total Xylenes	1,900.



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## LABORATORY REPORT

A.L. BURKE ENGINEERS 1162 North Kraemer Place Anaheim, CA 92806 ATTN: Ms. Anne Burke

Sample ID: 8-133 Southwall Wash

Tank Sludge

ANALYSIS NO.: 835405-001 ANALYSES: EPA Method 8010 DATE SAMPLED: 12/13/88 DATE SAMPLE REC'D: 12/19/88 DATE ANALYZED: 01/09/89

SAMPLE TYPE: Solid PROJECT: 87-07-0006 ITT Bldg. 8

# EPA METHODS 601/8010 HALOGENATED VOLATILE ORGANICS

Chloromethane	(ug/kg)		(ug/kg)
Bromomethane Vinyl Chloride Chloroethane Methylene Chloride 1,1-Dichloroethane 1,1-Dichloroethane Trans-1,2-Dichloroethene Chloroform 1,2-Dichloroethane 1,1-Trichloroethane Carbon Tetrachloride 1,2-Dichlorobenzene Trichlorofluoromethane	ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.)	1,2-Dichloropropane Trans-1,3-Dichloropropene Trichloroethene Dibromochloromethane 1,1,2-Trichloroethane Cis-1,3-Dichloropropene 2-Chloroethylvinylether Bromoform Tetrachloroethene 1,1,2,2-Tetrachloroethane Chlorobenzene Bromodichloromethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene	ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.) ND(200.)

Note: Interference due to sample matrix. Higher detection limits due to sample matrix (foamy).



7440 Lincoln Way • Garden Grove, CA 92641 (213) 598-0458 • (714) 898-6370 • (800) LAB-1-CRL FAX: (714) 891-5917

#### LABORATORY REPORT

A.L. BURKE ENGINEERS 1162 North Kraemer Place Anaheim, CA 92806 ATTN: Ms. Anne Burke

ANALYSIS NO.: 835405-001 ANALYSES: EPA Method 9040 DATE SAMPLED: 12/13/88 DATE SAMPLE RECOD: 12/19/8

DATE SAMPLE REC'D: 12/19/88 DATE ANALYZED: 01/17/89

SAMPLE TYPE: Solid PROJECT: 87-07-0006 ITT Bldg. 8

ITT Bldg. 8

SAMPLE IDENTIFICATION

8-133 Southwall Wash Tank Sludge

pH EPA METHOD 9040 (units)

6.65



7440 Lincoln Way • Garden Grove, CA 92641 (213) 598-0458 • (714) 898-6370 • (800) LAB-1-CRL FAX: (714) 891-5917

#### LABORATORY REPORT

A.L. BURKE ENGINEERS

1162 North Kraemer Place

Anaheim, CA 92806

ATTN: Ms. Anne Burke

Sample ID: 8-133 Southwall Wash

Tank Sludge

ANALYSIS NO.: 835405-001

ANALYSES: CAM Metals (STLC)

DATE SAMPLED: 12/13/88

DATE SAMPLE REC'D: 12/19/88

DATE ANALYZED: 01/21/89

SAMPLE TYPE: Solid PROJECT: 87-07-0006

ITT Bldg. 8

The following analytical determinations were conducted according to the guideline set forth in the California Administrative Code, Title 22, Chapter 30, Article II (January 12, 1985). The analyses were performed on a 48 hour citric acid extract (CAC-Waste Extraction Test) for soluble metals.

			CALIFORNIA		
		STLC RESULTS	ADMINISTRATIV	E CODE STANDARD	
<u>Parameters</u>	<u>METHODS</u>	in mg/L	STLC, in mg/L	TTLC, in $mg/kg$	
Barium	EPA 6010	6.7	100.	10,000.	
Cadmium	EPA 6010	2.0	. 1.	100.	
Copper	EPA 6010	73.	25.	2,500.	
Lead	EPA 6010	4.9	5.	1,000.	
Nickel	EPA 6010	3.7	20.	2,000.	
Zinc	EPA 6010	152.	250.	5,000.	



7440 Lincoln Way • Garden Grove, CA 92641 (213) 598-0458 • (714) 898-6370 • (800) LAB-1-CRL FAX: (714) 891-5917

## LABORATORY REPORT

A.L. BURKE ENGINEERS
1162 North Kraemer Place

Anaheim, CA 92806 ATTN: Ms. Anne Burke ANALYSIS NO.: 835405-001

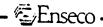
ANALYSES: EPA Methods 8010 & 8240

DATE SAMPLED: 12/13/88

DATE SAMPLE REC'D: 12/19/88

SAMPLE TYPE: Solid PROJECT: 87-07-0006 ITT Bldg. 8

<u>Date</u>	Parameter(method)	Average Spike Recovery%	Acceptable Range%	Relative Percent A <u>Difference</u>	cceptable Range%
01/09/89	1,1-Dichloroethene				
	(EPA 8010)	94	60-120	13	40
01/09/89	Trichloroethene				
, ,	(EPA 8010)	90	60-120	• 4	40
01/09/89	Chlorobenzene			4	
	(EPA 8010)	94	60-120	4	40
12/29/88	1,1-Dichloroethen	e			
	(EPA 8240)	87	59 <b>-</b> 172	0	22
12/29/88	Chlorobenzene				
	(EPA 8240)	104	59 <b>-</b> 139	· 3	21



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# LABORATORY REPORT

A.L. BURKE ENGINEERS 1162 North Kraemer Place Anaheim, CA 92806

Anaheim, CA 92806 ATTN: Ms. Anne Burke ANALYSIS NO.: 835405-001 ANALYSES: CAM Metals (TTLC) DATE SAMPLED: 12/13/88

DATE SAMPLE REC'D: 12/19/88

SAMPLE TYPE: Solid PROJECT: 87-07-0006 ITT Bldg. 8

		Average		Relative	
	_	Spike	Acceptable	Percent	Acceptable
<u>Date</u>	Parameter(method)	Recovery%	Range%	Difference	Range%
01/19/89	Antimony (EPA 6010)	103	25-110	3	47
01/17/89	Arsenic (EPA 7061)	81	47-190	ì	30
01/17/89	Barium (EPA 6010)	92	37-147	3	33
01/17/89		98	36-119	Ö	25
01/17/89	Cadmium (EPA 6010)	107	52-130	4	28
01/17/89		107	40-190	2	33
01/18/89	Chromium, Hex.			<u> </u>	
	(EPA 7196)	83	60-130	6	40
01/17/89	Cobalt (EPA 6010)	105	56-123	Ö	25
01/17/89	Copper (EPA 6010)	95	49-144	ĭ	23
01/17/89	Lead (EPA 6010)	105	35-180	5	40
01/17/89	Mercury (EPA 7471)	54	25-125	Ŏ	51
01/17/89	Molybdenum (EPA 6010		39-124	3	25
01/17/89	Nickel (EPA 6010)	105	55-155	1	
01/19/89	Selenium (EPA 7741)	56	30-103	13	25
01/17/89	Silver (EPA 6010)	95	44-128		30
01/18/89	Thallium (EPA 7840)	105	- ,	7	25
01/17/89	Vanadium (EPA 6010)	103	42-110	10	25
01/17/89	Zinc (EPA 6010)		55-142	0	25
01/1/03	Dine (DEA 0010)	100	52-165	0	31



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#### LABORATORY REPORT

A.L. BURKE ENGINEERS 1162 North Kraemer Place Anaheim, CA 92806 ATTN: Ms. Anne Burke ANALYSIS NO.: 835405-001 ANALYSES: CAM Metals (STLC) DATE SAMPLED: 12/13/88

DATE SAMPLE REC'D: 12/19/88

SAMPLE TYPE: Solid PROJECT: 87-07-0006 ITT Bldq. 8

Date	Parameter(method)	Average Spike Recovery%	Acceptable Range%	Relative Percent Difference	Acceptable Range%
Date	Parameter(method)				
01/21/89	Barium (EPA 6010)	97	63-137	5	30
01/21/89	Cadmium (EPA 6010)	100	72-141	3	25
01/21/89	Copper (EPA 6010)	95	68-129	2	25
01/21/89	Lead (EPA 6010)	99	65-144	3	25
	Nickel (EPA 6010)	97	65-146	2	25
01/21/89 01/21/89	Zinc (EPA 6010)	96	73-138	4	25



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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

12/30/88

Attn: Anne Burke 714/666/1120

Project:ITT Bldg.#8 87-07-0006

Sample #: 8356110500

Received: 12/21/88

Type: Liquid

Collector: M. Torres

Sampling Date & Time: 12/18/88, 1245

Method: Grab

I.D.: 8-134 Baker Tank #2

=======CONSTITUENT======== ====METHOD===== ==RESULT== ===UNIT=== -EPA 608/8080 (PCBs only)-Analyzed 12/29/88 Aroclor - 1016 EPA 608/8080 ND <0.0005 mg/L Aroclor - 1221 EPA 608/8080 ND <0.0005 mg/L Aroclor - 1232 EPA 608/8080 ND <0.0005 mg/L Aroclor - 1242 EPA 608/8080 ND <0.0005 mg/L Aroclor - 1248 EPA 608/8080 ND <0.0005 mg/L Aroclor - 1254 EPA 608/8080 ND <0.0005 mg/L Aroclor - 1260 EPA 608/8080 ND <0.0005 mg/L

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

01/16/89

Attn: Anne Burke

714/666/1120

Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100103

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0730

Method: Grab

I.D.: 8-142

-======CONSTITUENT===================================	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/4/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <50000	ng/wipe	•
Aroclor - 1248	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1254	EPA 608/8080	160000	ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <50000	ng/wipe	

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

Attn: Anne Burke

714/666/1120

Project- ITT Building 8 Project # 87-07-0006.

Sample #: 8363100102 Collector: Client

Received: 12/28/88

Type: Solid

Sampling Date & Time: 12/21/88, 0720

Method: Grab

I.D.: 8-141

=======CONSTITUENT===================================	====METHOD====	==RESULT== === Analyzed 1/4	UNIT=== ===MDL==== /89
Aroclor - 1016	EPA 608/8080	ND <250000 ng/	wipe
Aroclor - 1221	EPA 608/8080	ND <250000 ng/	wipe
Aroclor - 1232	EPA 608/8080	ND <250000 ng/	wipe
Aroclor - 1242	EPA 608/8080	ND <250000 ng/	wipe
Aroclor - 1248	EPA 608/8080	ND <250000 ng/	wipe
Aroclor - 1254	EPA 608/8080	4100000 ng/	wipe
Aroclor - 1260	EPA 608/8080	ND <250000 ng/	wipe

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01/16/89

Attn: Anne Burke

714/666/1120

Project- ITT Building 8
Project # 87-07-0006

Sample #: 8363100101

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0715

Method: Grab

I.D.: 8-140

======================================	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/4/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <25000	ng/wipe	÷
Aroclor - 1221	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <25000		
Aroclor - 1242	EPA 608/8080	ND <25000		
Aroclor - 1248	EPA 608/8080	ND <25000		
Aroclor - 1254	EPA 608/8080		ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <25000		•

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Attn: Anne Burke

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Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100104

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0740

Method: Grab

=======CONSTITUENT===================================	====METHOD====	==RESULT== ===UNIT=== Analyzed 1/4/89	===MDL====
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254 Aroclor - 1260	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <250000 ng/wipe ND <250000 ng/wipe ND <250000 ng/wipe ND <250000 ng/wipe ND <250000 ng/wipe 520000 ng/wipe ND <250000 ng/wipe	



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Attn: Anne Burke

714/666/1120

Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100101

Received: 12/28/88

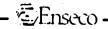
Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0715

Method: Grab

-=======CONSTITUENT===================================	====METHOD====	==RESULT== ===UNIT Analyzed 1/4/89	'=== ===MDL====
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254 Aroclor - 1260	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <25000 ng/wipe ND <25000 ng/wipe ND <25000 ng/wipe ND <25000 ng/wipe ND <25000 ng/wipe 360000 ng/wipe ND <25000 ng/wipe	



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01/16/89

Attn: Anne Burke 714/666/1120

Project = ITT Building 8 Project # 87-07-0006

Sample #: 8363100102

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0720

Method: Grab

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed		===MDL====
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <250000 ND <250000 ND <250000 ND <250000 ND <250000 4100000	ng/wipe ng/wipe ng/wipe ng/wipe ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <250000	ng/wipe	



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Attn: Anne Burke 714/666/1120

Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100103

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0730

Method: Grab

-=====CONSTITUENT===================================	====METHOD====	==RESULT== ===UNIT=== Analyzed 1/4/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <50000 ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <50000 ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <50000 ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <50000 ng/wipe	
Aroclor - 1248	EPA 608/8080	ND <50000 ng/wipe	
Aroclor - 1254	EPA 608/8080	160000 ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <50000 ng/wipe	



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Attn: Anne Burke 714/666/1120

Project - ITT Building 8
Project # 87-07-0006

Sample #: 8363100104

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0740

Method: Grab

I.D.: 8-143

======CONSTITUENT======= ==== ====METHOD==== ==RESULT== ===UNIT=== ===MDL==== -EPA 608/8080 (PCBs only)-Analyzed 1/4/89 Aroclor - 1016 EPA 608/8080 ND <250000 ng/wipe Aroclor - 1221 EPA 608/8080 ND <250000 ng/wipe Aroclor - 1232 EPA 608/8080 ND <250000 ng/wipe Aroclor - 1242 EPA 608/8080 ND <250000 ng/wipe Aroclor - 1248 EPA 608/8080 ND <250000 ng/wipe Aroclor - 1254 EPA 608/8080 520000 ng/wipe Aroclor - 1260 EPA 608/8080 ND <250000 ng/wipe



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Attn: Anne Burke

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Project- ITT Building 8
Project # 87-07-0006

Sample #: 8363100105

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0750

Method: Grab

-======CONSTITUENT===================================	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/4/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <250000	ngluine	
Aroclor - 1221	EPA 608/8080	ND <250000		
Aroclor - 1232	EPA 608/8080	ND <250000		
Aroclor - 1242	EPA 608/8080	ND <250000		
Aroclor - 1248	EPA 608/8080	ND <250000	ng/wipe	1
Aroclor - 1254	EPA 608/8080	3900000	ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <250000	ng/wipe	



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Attn: Anne Burke

714/666/1120

Project - ITT Building 8 Project # 87-07-0006

Sample #: 8363100106 Co

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0800

Method: Grab

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed		===MDL <b>====</b>
Aroclor - 1016	EPA 608/8080	ND <50000	ng/wipe	•
Aroclor - 1221	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1248	EPA 608/8080	ND <50000	ng/wipe	•
Aroclor - 1254	EPA 608/8080	120000	ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <50000	ng/wipe	



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Attn: Anne Burke

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Project- ITT Building 8
Project # 87-07-0006

Sample #: 8363100107

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0805

Method: Grab



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Attn: Anne Burke 714/666/1120

Project- ITT Building 8
Project # 87-07-0006

Sample #: 8363100108 Collector: Client

Received: 12/28/88 Sampling Date & Time: 12/21/88, 0810

Type: Solid Method: Grab

	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/5/89	===MDL====
Amondon - 1016	EDA. 60010000	ND <50000	nalesia.	
Aroclor - 1016	EPA 608/8080	ND <50000		•
Aroclor - 1221	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <50000	ng/wipe	•
Aroclor - 1248	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1254	EPA 608/8080	280000	ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <50000	ng/wipe	



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01/16/89

Attn: Anne Burke 714/666/1120

Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100109

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0815

Method: Grab

======================================	====METHOD====	==RESULT== Analyzed		===MDL====
Aroclor - 1016	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <25000		
Aroclor - 1232	EPA 608/8080	ND <25000		
Aroclor - 1242	EPA 608/8080	ND <25000		
Aroclor - 1248	EPA 608/8080	ND <25000		
Aroclor - 1254	EPA 608/8080	83000	ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <25000	ng/wipe	



01/16/89

#### CRL Environmental - Ventura

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Attn: Anne Burke 714/666/1120

.

Project - ITT Building 8 Project # 87-07-0006

Sample #: 8363100110

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0820

Method: Grab

-======CONSTITUENT======== -EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed		===MDL====
Aroclor - 1016	EPA 608/8080	ND <25000	ng/wipe	, ,
Aroclor - 1221	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <25000	•	
Aroclor - 1242	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1248	EPA 608/8080	ND <25000		
Aroclor - 1254	EPA 608/8080		ng/wipe	•
Aroclor - 1260	EPA 608/8080	ND <25000	ng/wipe	



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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349 01/16/89

Attn: Anne Burke

714/666/1120

Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100111 Collector: Client

Received: 12/28/88

Type: Solid

Sampling Date & Time: 12/21/88, 0825

Method: Grab

-EPA 608/8080 (PCBs only)-	====METH	OD====		SULT== nalyzed		===MDL====
Aroclor - 1016	EPA 608/	8080	ND	<25000	ng/wipe	
Aroclor - 1221	EPA 608/				ng/wipe	
Aroclor - 1232	EPA 608/	8080	ND	<25000	ng/wipe	
Aroclor - 1242	EPA 608/	8080	ND	<25000	ng/wipe	
Aroclor - 1248	EPA 608/	8080	ND	<25000	ng/wipe	
Aroclor - 1254	EPA 608/	8080		65000	ng/wipe	
Aroclor - 1260	EPA 608/	8080	ŅD	<25000	ng/wipe	

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Attn: Anne Burke 714/666/1120

01/16/89

Project- ITT Building 8
Project # 87-07-0006

Sample #: 8363100112

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0830

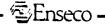
Method: Grab

I.D.: 8-151

======================================	====METHOD====	==RESULT== Analyzed		===MDL <b>==</b> ==
Aroclor - 1016	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1248	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1254	EPA 608/8080	85000	ng/wipe	
Aroclor = 1260	EPA 608/8080	ND <25000	ng/wipe	•

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01/16/89

Attn: Anne Burke 714/666/1120

Project- ITT Building 8
Project # 87-07-0006

Sample #: 8363100113

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0835

Method: Grab

I.D.: 8-152

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/5/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <2500		
Aroclor - 1232	EPA 608/8080	ND <2500		
Aroclor - 1242	EPA 608/8080	ND <2500		,
Aroclor - 1248	EPA 608/8080	ND <2500		
Aroclor - 1254	EPA 608/8080		ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <2500	ng/wipe	

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Attn: Anne Burke

714/666/1120

01/16/89

Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100114 Collector: Client

Received: 12/28/88 Sampling Date & Time: 12/21/88, 0840

Type: Solid Method: Grab

========CONSTITUENT===================================	====METHOD====	==RESULT== Analyzed		===MDL====
Aroclor - 1016	EPA 608/8080	ND <2500	ng/wine	
Aroclor - 1221	EPA 608/8080	ND <2500	•	
Aroclor - 1232	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1248	EPA 608/8080	ND <2500	ng/wipe	•
Aroclor - 1254	EPA 608/8080	12000	ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <2500	ng/wipe	



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Attn: Anne Burke 714/666/1120

01/16/89

Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100115

Received: 12/28/88

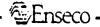
Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0845

Method: Grab

========CONSTITUENT===================================	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/5/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <2500	nalwine	
Aroclor - 1221	EPA 608/8080	ND <2500		
Aroclor - 1232	EPA 608/8080	ND <2500		•
Aroclor - 1242	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1248	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1254	EPA 608/8080	6900	ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <2500	ng/wipe	



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Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100116 (

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0850

Method: Grab

I.D.: 8-155

=======CONSTITUENT======= ==== ===METHOD==== ==RESULT== ===UNIT=== ===MDL==== -EPA 608/8080 (PCBs only)-Analyzed 1/6/89 Aroclor - 1016 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1221 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1232 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1242 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1248 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1254 EPA 608/8080 13000 ng/wipe Aroclor - 1260 EPA 608/8080 ND <2500 ng/wipe



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Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100117 Collector: Client

Received: 12/28/88 Sampling Date & Time: 12/21/88, 0855

Method: Grab Type: Solid

========CONSTITUENT===================================	====METHOD====	==RESULT== Analyzed		===MDL====
Aroclor - 1016	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <2500		•
Aroclor - 1232	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1248	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1254	EPA 608/8080	20000	ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <2500	ng/wipe	



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Project - ITT Building 8 Project # 87-07-0006

714/666/1120

Sample #: 8363100118 Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0900

Method: Grab

=======CONSTITUENT===================================	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/6/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <2500		,
Aroclor - 1232	EPA 608/8080	ND <2500	•	
Aroclor - 1242	EPA 608/8080	ND <2500	•	
Aroclor - 1248	EPA 608/8080	ND <2500		
Aroclor - 1254	EPA 608/8080		ng/wipe	•
Aroclor - 1260	EPA 608/8080	ND <2500	- ·	



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Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100119

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date, & Time: 12/21/88, 0905 Method: Grab

	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/6/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <2500		
Aroclor - 1232	EPA 608/8080	ND <2500		
Aroclor - 1242	EPA 608/8080	ND <2500	•	
Aroclor - 1248	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1254	EPA 608/8080		ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <2500	ng/wipe	



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Attn: Anne Burke 714/666/1120

Project- ITT Building 8
Project # 87-07-0006

Sample #: 8363100120

Received: 12/28/88

Type: Solid

Collector: Client

Sampling_Date % Time: 12/21/88, 0910

Method: Grab

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/6/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <50000		
Aroclor - 1242	EPA 608/8080	ND <50000		
Aroclor - 1248	EPA 608/8080	ND <50000		•
Aroclor - 1254	EPA 608/8080		ng/wipe	,
Aroclor - 1260	EPA 608/8080	ND <50000		
				4 .

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Project- ITT Building 8

Project # 87-07-0006

Attn: Anne Burke 714/666/1120

Sample #: 8363100121 Collector: Client Received: 12/28/88

Sampling Date & Time: 12/21/88, 0915 Method: Grab

I.D.: 8-160

Type: Solid

=======CONSTITUENT======= ==== ====METHOD==== ==RESULT== ===UNIT=== ===MDT.==== -EPA 608/8080 (PCBs only)-Analyzed 1/6/89 Aroclor - 1016 EPA 608/8080 ND <25000 ng/wipe Aroclor - 1221 EPA 608/8080 ND <25000 ng/wipe Aroclor - 1232 EPA 608/8080 ND <25000 ng/wipe Aroclor - 1242 EPA 608/8080 ND <25000 ng/wipe Aroclor - 1248 EPA 608/8080 ND <25000 ng/wipe EPA 608/8080 Aroclor - 1254 45000 ng/wipe Aroclor - 1260 EPA 608/8080 ND <25000 ng/wipe

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Attn: Anne Burke

Project- ITT Building 8 Project # 87-07-0006

714/666/1120

Sample #: 8363100122

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0925

Method: Grab

-======CONSTITUENT===================================	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/6/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1248	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1254	EPA 608/8080	200000	ng/wipe	•
Aroclor - 1260	EPA 608/8080	ND <25000	ng/wipe	

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Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100105 Collector: Client

Received: 12/28/88 Sampling Date & Time: 12/21/88, 0750

Type: Solid Method: Grab

I.D.: 8-144

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/4/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <250000	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <250000		
Aroclor - 1232	EPA 608/8080	ND <250000		
Aroclor - 1242	EPA 608/8080	ND <250000		
Aroclor - 1248	EPA 608/8080	ND <250000		•
Aroclor - 1254	EPA 608/8080	3900000		
Aroclor - 1260	EPA 608/8080	ND <250000	•	

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Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100106 Collector: Client

Received: 12/28/88

Type: Solid

Sampling Date & Time: 12/21/88, 0800

Method: Grab

=======CONSTITUENT===================================		==RESULT== Analyzed	===UNIT=== 1/4/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <50000	ng/wipe	•
Aroclor - 1248	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1254	EPA 608/8080	120000	ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <50000	ng/wipe	

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Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100107

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0805 Method: Grab

	====METHOD====	==RESULT== Analyzed		===MDL====
Aroclor - 1016	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <50000	ng/wipe	•
Aroclor - 1248	EPA 608/8080	ND <50000		
Aroclor - 1254	EPA 608/8080		ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <50000		

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Project- ITT Building 8 Project # 87-07-0006

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Sample #: 8363100108 Collector: Client

Received: 12/28/88

Sampling Date & Time: 12/21/88, 0810

Type: Solid

Method: Grab

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/5/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <50000	ng/wipe	•
Aroclor - 1232	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1248	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1254	EPA 608/8080	280000	ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <50000	ng/wipe	

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Project - ITT Building 8
Project # 87-07-0006

Sample #: 8363100109 Collector: Client

Received: 12/28/88 Sampling_Date & Time: 12/21/88, 0815

Type: Solid Method: Grab

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/5/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <25000	ng/wipe	•
Aroclor - 1221	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1248	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1254	EPA 608/8080	83000	ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <25000	nelwipe	

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Attn: Anne Burke

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Sample #: 8363100110

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0820

Method: Grab

I.D.: 8-149

=======CONSTITUENT===================================	====METHOD====	==RESULT== Analyzed		===MDL====
Aroclor - 1016	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <25000	-	
Aroclor - 1232	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1248	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1254	EPA 608/8080	40000	ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <25000	ng/wipe	

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Project - ITT Building 8 Project # 87-07-0006

Sample #: 8363100111

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0825

Method: Grab

-======CONSTITUENT===================================	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/5/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <25000	ng/wipe	•
Aroclor - 1232	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1242	EPA 608/8080	` ND <25000	ng/wipe	
Aroclor - 1248	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1254	EPA 608/8080	65000	ng/wipe	•
Aroclor - 1260	EPA 608/8080	ND <25000	ng/wipe	

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Project - ITT Building 8 Project # 87-07-0006

Sample #: 8363100112

Received: 12/28/88

Collector: Client Sampling Date & To

Sampling Date & Time: 12/21/88, 0830

Method: Grab

I.D.: 8-151

Type: Solid

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed	===UNIT=== ===MDL==== 1/5/89
Aroclor - 1016	EPA 608/8080	ND <25000	ng/wipe
Aroclor - 1221	EPA 608/8080	ND <25000	ng/wipe
Aroclor - 1232	EPA 608/8080	ND <25000	ng/wipe
Aroclor - 1242	EPA 608/8080	ND <25000	ng/wipe
Aroclor - 1248	EPA 608/8080	ND <25000	ng/wipe
Aroclor - 1254	EPA 608/8080	85000	ng/wipe
Aroclor - 1260	EPA 608/8080	ND <25000	ng/wipe

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Project - ITT Building 8 Project # 87-07-0006

Sample #: 8363100113

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0835

Method: Grab

	====METHOD====	==RESULT== Analyzed		===MDL====
Aroclor - 1016	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <2500		
Aroclor - 1232	EPA 608/8080	ND <2500	ng/wipe	•
Aroclor - 1242	EPA 608/8080	ND <2500		
Aroclor - 1248	EPA 608/8080	ND <2500	ng/wipe	•
Aroclor - 1254	EPA 608/8080		ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <2500	ng/wipe	

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Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100114

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0840

Method: Grab

I.D.: 8-153

-======CONSTITUENT===================================	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/5/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <2500	ng/wipe	•
Aroclor - 1248	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1254	EPA 608/8080	12000	ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <2500	ng/wipe	

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Project - ITT Building 8 Project # 87-07-0006

Sample #: 8363100115 Collector: Client

Received: 12/28/88 Sampling Date & Time: 12/21/88, 0845

Type: Solid Method: Grab

I.D.: 8-154

	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/5/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <2500	ng/wipe	•
Aroclor - 1221	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1248	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1254	EPA 608/8080	6900	ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <2500	ng/wipe	•

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Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100116 Collector: Client

Received: 12/28/88

Type: Solid

Sampling Date & Time: 12/21/88, 0850

Method: Grab

I.D.: 8-155

CONSTITUENT	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/6/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <2500		
Aroclor - 1232	EPA 608/8080	ND <2500		
Aroclor - 1242	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1248	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1254	EPA 608/8080	13000	ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <2500	ng/wipe	

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Project- ITT Building 8~ Project # 87-07-0006

Sample #: 8363100117

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0855

Method: Grab

I.D.: 8-156

=======CONSTITUENT===================================	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/6/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1248	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1254	EPA 608/8080	20000	ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <2500	ng/wipe	

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Page: 17 (cont.)

[ND = None Detected; (G) = Grab; MDL = Minimum Detection Limit]

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Attn: Anne Burke

714/666/1120

Project # 87-07-0006

Sample #: 8363100118

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0900

Method: Grab

=======CONSTITUENT===================================	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/6/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <2500	ng/wipe	*
Aroclor - 1232	EPA 608/8080	ND <2500	ng/wipe	•
Aroclor - 1242	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1248	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1254	EPA 608/8080	19000	ng/wipe	•
Aroclor - 1260	EPA 608/8080	ND <2500	ng/wipe	

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Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100119

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0905

Method: Grab

I.D.: 8-158

	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/6/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1248	EPA 608/8080	ND <2500	ng/wipe	
Aroclor - 1254	EPA 608/8080	16000	ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <2500	ng/wipe	

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Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100120 Collector: Client

Sampling Date & Time: 12/21/88, 0910 Method: Grab Received: 12/28/88

Type: Solid

-======CONSTITUENT===================================	====METHOD====	==RESULT== Analyzed		===MDL====
Aroclor - 1016	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <50000		
Aroclor - 1232	EPA 608/8080		ng/wipe	•
Aroclor - 1242	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1248	EPA 608/8080	ND <50000	ng/wipe	
Aroclor - 1254	EPA 608/8080	230000	ng/wipe	•
Aroclor - 1260	EPA 608/8080	ND <50000	ng/wipe	

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Project- ITT Building 8

Project # 87-07-0006

Attn: Anne Burke 714/666/1120

Sample #: 8363100121

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0915

Method: Grab

=======CONSTITUENT===================================	====METHOD====	==RESULT== ===UNIT=== Analyzed 1/6/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <25000 ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <25000 ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <25000 ng/wipe	
Aroclor - 1242	EPA 608/8080	ND <25000 ng/wipe	
Aroclor - 1248	EPA 608/8080	ND <25000 ng/wipe	
Aroclor - 1254	EPA 608/8080	45000 ng/wipe	· .
Aroclor - 1260	EPA 608/8080	ND <25000 ng/wipe	

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Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100122 Collector: Client

Received: 12/28/88

Type: Solid

Sampling Date & Time: 12/21/88, 0925

Method: Grab

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/6/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <25000	-	•
Aroclor - 1232	EPA 608/8080	ND <25000	• •	
Aroclor - 1242	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1248	EPA 608/8080	ND' <25000	ng/wipe	
Aroclor - 1254	EPA 608/8080	200000	ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <25000	ng/wipe	

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Attn: Anne Burke 714/666/1120

Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100123

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0950

Method: Grab

I.D.: 8-164

=======CONSTITUENT===================================	====METHOD====	==RESULT== Analyzed		===MDL====
	mm. coolooo	ND <50	/1	
Aroclor - 1016	EPA 608/8080	ND <50		
Aroclor - 1221	EPA 608/8080	ND <50	mg/kg	•
Aroclor - 1232	EPA 608/8080	ND <50	mg/kg	
Aroclor - 1242	EPA 608/8080	ND <50	mg/kg	•
Aroclor - 1248	EPA 608/8080	550	mg/kg	
Aroclor - 1254	EPA 608/8080	ND <50	mg/kg	
Aroclor - 1260	EPA 608/8080	ND <50	mg/kg	

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Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100124 Collector: Client

Received: 12/28/88

Type: Solid

Sampling Date & Time: 12/21/88, 0955

Method: Grab

========CONSTITUENT===================================	====METHOD====	==RESULT== Analyzed		===MDL====
Aroclor - 1016	EPA 608/8080	ND <50	mg/kg	
Aroclor - 1221	EPA 608/8080	ND <50		
Aroclor - 1232	EPA 608/8080	ND <50	mg/kg	
Aroclor - 1242	EPA 608/8080	ND <50	mg/kg	
Aroclor - 1248	EPA 608/8080	640	mg/kg	
Aroclor - 1254	EPA 608/8080	ND <50	mg/kg	•
Aroclor - 1260	EPA 608/8080	ND <50	mg/kg	

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Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100125

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 1000

Method: Grab

I.D.: 8-166

	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/12/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <0.05	mg/kg	•
Aroclor - 1221	EPA 608/8080	ND <0.05	mg/kg	
Aroclor - 1232	EPA 608/8080	ND <0.05	mg/kg	
Aroclor - 1242	EPA 608/8080	ND <0.05	mg/kg	•
Aroclor - 1248	EPA 608/8080	0.80	mg/kg	•
Aroclor - 1254	EPA 608/8080	ND <0.05	mg/kg	
Aroclor - 1260	EPA 608/8080	ND <0.05	mg/kg	

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01/19/89

Attn: Anne Burke 714/666/1120

Project Building 8 ITT Project #87-07(0006)

Sample #: 9004101001 Collector: Client

Received: 01/04/89 Sampling_Date_& Time: 12/21/88, ****

Type: Solid Method: Grab

I.D.: 8-162

=======CONSTITUENT======== ====METHOD===== ==RESULT== ===UNIT=== -EPA 608/8080 (PCBs only)-Analyzed 1/14/89 Aroclor - 1016 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1221 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1232 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1242 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1248 EPA 608/8080 17000 ng/wipe Aroclor - 1254 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1260 EPA 608/8080 ND <2500 ng/wipe

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Attn: Anne Burke 714/666/1120

Project- Building 8 ITT Project #87-07(0006)

Sample #: 9004101002

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, ****

Method: Grab

I.D.: 8-163

=======CONSTITUENT===================================	====METHOD=====	==RESULT== Analyzed	===UNIT=== 1/16/89
Aroclor - 1016	EPA 608/8080	ND <2500	
Aroclor - 1221 Aroclor - 1232	EPA 608/8080 EPA 608/8080	ND <2500 ND <2500	
Aroclor - 1242	EPA 608/8080	ND <2500	ng/wipe
Aroclor - 1248 Aroclor - 1254	EPA 608/8080 EPA 608/8080	11000 ND <2500	ng/wipe
Aroclor - 1260	EPA 608/8080	ND <2500	• •

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Attn: Anne Burke 714/666/1120

Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100123

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0950

Method: Grab

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/12/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <50	mg/kg	4
Aroclor - 1221	EPA 608/8080	ND <50	mg/kg	
Aroclor - 1232	EPA 608/8080	ND <50	mg/kg	
Aroclor - 1242	EPA 608/8080	ND <50	mg/kg	
Aroclor - 1248	EPA 608/8080	550	mg/kg	•
Aroclor - 1254	EPA 608/8080	ND <50	mg/kg	
Aroclor - 1260	EPA 608/8080	ND <50	mg/kg	

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Attn: Anne Burke 714/666/1120

Project - ITT Building 8 Project # 87-07-0006

Sample #: 8363100124

Received: 12/28/88

Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 0955

Method: Grab

I.D.: 8-165

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed		===MDL====
A 1 1016				
Aroclor - 1016	EPA 608/8080	== ND <50	mg/kg	
Aroclor - 1221	EPA 608/8080	ND <50	mg/kg	
Aroclor - 1232	EPA 608/8080	ND <50		
Aroclor - 1242	EPA 608/8080	ND <50		t .
Aroclor - 1248	EPA 608/8080		mg/kg	
Aroclor - 1254	EPA 608/8080	ND <50		
Aroclor - 1260	EPA 608/8080	ND <50		

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Project- ITT Building 8 Project # 87-07-0006

Sample #: 8363100125

Received: 12/28/88

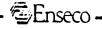
Type: Solid

Collector: Client

Sampling Date & Time: 12/21/88, 1000 Method: Grab

I.D.: 8-166

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed		===MDL====
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254 Aroclor - 1260	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <0.05 ND <0.05 ND <0.05 ND <0.05 0.80 ND <0.05 ND <0.05	mg/kg mg/kg mg/kg mg/kg mg/kg	



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Project - Building 8 ITT Project #87-07(0006)

Sample #: 9004101015

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/22/88, ****

Method: Grab

I.D.: 8-167

=======CONSTITUENT======== ====METHOD===== ==RESULT== ===UNIT=== -EPA 608/8080 (PCBs only)-Analyzed 1/12/89 Aroclor - 1016 EPA 608/8080 ND < 0.5 mg/kgAroclor - 1221 EPA 608/8080 ND < 0.5 mg/kgAroclor - 1232 EPA 608/8080 ND < 0.5 mg/kgAroclor - 1242 EPA 608/8080 ND < 0.5 mg/kgAroclor - 1248 EPA 608/8080 ND < 0.5 mg/kgAroclor - 1254 EPA 608/8080 2.9 mg/kgAroclor - 1260 EPA 608/8080 ND < 0.5 mg/kg

Reviewed

Approved

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Attn: Anne Burke 714/666/1120

Project- Building 8 ITT Project #87-07(0006)

Sample #: 9004101003

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/26/88, ****
Method: Grab

I.D.: 8-168

-=======CONSTITUENT===================================	====METHOD=====	==RESULT== Analyzed	
Aroclor - 1016	EPA 608/8080	ND <2500	ng/wipe
Aroclor - 1221	EPA 608/8080	ND <2500	
Aroclor - 1232	EPA 608/8080	ND <2500	
Aroclor - 1242	EPA 608/8080	ND <2500	
Aroclor - 1248	EPA 608/8080	76000	
Aroclor - 1254	EPA 608/8080	ND <2500	
Aroclor - 1260	EPA 608/8080	ND <2500	



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Project- Building 8 ITT Project #87-07(0006)

Sample #: 9004101004

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/26/88, ****
Method: Grab

Analyzed	===UNIT=== 1/16/89
ND <2500 ND <2500 ND <2500 ND <2500 28000 ND <2500 ND <2500	ng/wipe ng/wipe ng/wipe ng/wipe
	ND <2500 28000 ND <2500



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Project Building 8 ITT Project #87-07(0006)

Sample #: 9004101005

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/26/88, ****

Method: Grab

I.D.: 8-170

========CONSTITUENT======== ==RESULT== ===UNIT=== ====METHOD===== -EPA 608/8080 (PCBs only)-Analyzed 1/16/89 Aroclor - 1016 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1221 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1232 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1242 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1248 EPA 608/8080 37000 ng/wipe Aroclor - 1254 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1260 EPA 608/8080 ND <2500 ng/wipe

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Project- Building 8 ITT Project #87-07(0006)

Sample #: 9004101006

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/26/88, ****

Method: Grab

I.D.: 8-171

:==METHOD=====	==RESULT== Analyzed	
A 608/8080 A 608/8080 A 608/8080 A 608/8080 A 608/8080	ND <25000 ND <25000 ND <25000 330000 ND <25000	ng/wipe ng/wipe ng/wipe ng/wipe ng/wipe
	PA 608/8080 PA 608/8080 PA 608/8080 PA 608/8080 PA 608/8080 PA 608/8080 PA 608/8080	Analyzed  PA 608/8080 ND <25000 PA 608/8080 ND <25000 PA 608/8080 ND <25000 PA 608/8080 ND <25000 PA 608/8080 ND <25000 PA 608/8080 ND <25000 PA 608/8080 ND <25000 PA 608/8080 ND <25000

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Project Building 8 ITT Project #87-07(0006)

Sample #: 9004101007

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/26/88, ****

Method: Grab

======================================	====METHOD=====	==RESULT== Analyzed	
Aroclor - 1016	EPA 608/8080	ND <25000	ng/wine
	EPA 608/8080	ND <25000 ND <25000	
Aroclor - 1232	EPA 608/8080	ND <25000	
Aroclor - 1242	EPA 608/8080	ND <25000	
Aroclor - 1248	EPA 608/8080		ng/wipe
Aroclor - 1254	EPA 608/8080	ND <25000	
Aroclor - 1260	EPA 608/8080	ND <25000	ng/wipe



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Project- Building 8 ITT Project #87-07(0006)

Sample #: 9004101008

Received: 01/04/89

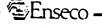
Type: Solid

Collector: Client

Sampling Date & Time: 12/26/88, ****

Method: WGrab

-======CONSTITUENT===================================	====METHOD=====	==RESULT== Analyzed	
Aroclor - 1016	EPA 608/8080	ND <25000	ng/wipe
·Aroclor - 1221	EPA 608/8080	ND <25000	
Aroclor - 1232	EPA 608/8080	ND <25000	•
Aroclor - 1242	EPA 608/8080	ND <25000	
Aroclor - 1248	EPA 608/8080		ng/wipe
Aroclor - 1254	EPA 608/8080	ND <25000	
Aroclor - 1260	EPA 608/8080	ND <25000	



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Project- Building 8 ITT Project #87-07(0006)

Sample #: 9004101009

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/26/88, ****

Method: Grab

I.D.: 8-174

=======CONSTITUENT======= ==== ===METHOD===== ==RESULT== ===UNIT=== -EPA 608/8080 (PCBs only)-Analyzed 1/16/89 Aroclor - 1016 EPA 608/8080 ND <250000 ng/wipe Aroclor - 1221 EPA 608/8080 ND <250000 ng/wipe Aroclor - 1232 EPA 608/8080 ND <250000 ng/wipe Aroclor - 1242 EPA 608/8080 ND <250000 ng/wipe Aroclor - 1248 EPA 608/8080 ND <250000 ng/wipe Aroclor - 1254 EPA 608/8080 10000000 ng/wipe Aroclor - 1260 EPA 608/8080 ND <250000 ng/wipe

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

01/19/89

Attn: Anne Burke 714/666/1120

Project Building 8 ITT Project #87-07(0006)

Sample #: 9004101010

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/26/88, ****

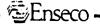
Method: Grab

I.D.: 8-175

	====METHOD=====	==RESULT== Analyzed	
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232	EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <2500 ND <2500 ND <2500	ng/wipe ng/wipe
Aroclor - 1242 Aroclor - 1248 Aroclor - 1254 Aroclor - 1260	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <2500 ND <2500	ng/wipe ng/wipe ng/wipe

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349 01/19/89

Attn: Anne Burke 714/666/1120

Project Building 8 ITT Project #87-07(0006)

Sample #: 9004101011 Collector: Client

Received: 01/04/89

Type: Solid

Sampling Date & Time: 12/26/88, ****

Method: Grab

I.D.: 8-176

==RESULT== ===UNIT=== =======CONSTITUENT======== ====METHOD===== Analyzed 1/16/89 -EPA 608/8080 (PCBs only)-ND <25000 ng/wipe Aroclor - 1016 EPA 608/8080 Aroclor - 1221 EPA 608/8080 ND <25000 ng/wipe EPA 608/8080 ND <25000 ng/wipe Aroclor - 1232 Aroclor - 1242 EPA 608/8080 ND <25000 ng/wipe Aroclor - 1248 EPA 608/8080 ND <25000 ng/wipe Aroclor - 1254 EPA 608/8080 420000 ng/wipe EPA 608/8080 Aroclor - 1260 ND <25000 ng/wipe

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Attn: Anne Burke 714/666/1120

Project Building 8 ITT Project #87-07(0006)

Sample #: 9004101012

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/26/88, ****

Method: Graba

-EPA 608/8080 (PCBs only)-	====METHOD=====	==RESULT== Analyzed	
Aroclor - 1016	EPA 608/8080	ND <25000	ng/wipe
Aroclor - 1221	EPA 608/8080	ND <25000	ng/wipe ·
Aroclor - 1232	EPA 608/8080	ND: <25000	
Aroclor - 1242	EPA 608/8080	ND <25000	ng/wipe
Aroclor - 1248	EPA 608/8080	ND <25000	
Aroclor - 1254	EPA 608/8080	260000	ng/wipe
Aroclor - 1260	EPA 608/8080	ND <25000	ng/wipe



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01/19/89

Attn: Anne Burke 714/666/1120

Project- Building 8 ITT Project #87-07(0006)

Sample #: 9004101013

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/26/88, ****
Method: Grab

========CONSTITUENT===================================	====METHOD=====	==RESULT== Analyzed	
Aroclor - 1016	EPA 608/8080	ND <25000	
Aroclor - 1221	EPA 608/8080	ND <25000 ND <25000	ng/wipe
Aroclor - 1232	EPA 608/8080	ND <25000	
Aroclor - 1242	EPA 608/8080	ND <25000	
Aroclor - 1248	EPA 608/8080	ND <25000	
Aroclor - 1254 Aroclor - 1260	EPA 608/8080		ng/wipe
MIDCIDI - 1280	EPA 608/8080	ND <25000	ng/wipe



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01/19/89

Attn: Anne Burke 714/666/1120

Project- Building 8 ITT Project #87-07(0006)

Sample #: 9004101014

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/26/88, ****
Method: Grab

I.D.: 8-179

-=======CONSTITUENT===================================	====METHOD=====	==RESULT== Analyzed	
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <25000 ND <25000 ND <25000 ND <25000 65000 ND <25000	ng/wipe ng/wipe ng/wipe ng/wipe
Aroclor - 1260	EPA 608/8080	ND <25000	

# CRL Environmental - South Coast

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### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE ANAHEIM, CA 92806 ATTN: Ms. Anne Burke

Analysis No.: G-8836404-012
Date Sampled: 28-DEC-1988
Date Sample Rec'd: 29-DEC-1988
Date Analyzed: 7-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. (87-07-0007)

Sample ID: 8-180

Purgeable Organics, EPA 8240

Units: ug/kg

Analysis		Result	Blank	Detection Limit
Chloromethane		••••••		
		ND	ND	- 50
Bromomethane		ND	ND	50
Vinyl Chloride		ND	ND	50
Chloroethane		ND	ND	50
Methylene Chloride		ND	ND	20
Acetone	,	ND -	ND	50
Carbon Disulfide		ND	ND	20
1,1-Dichloroethene		ND	ND .	20
1,1-Dichloroethane		ND	ND	20
trans-1,2-Dichloroethene		ND_	ND	20
Chloroform		ৣ35.	ND	20
1,2-Dichloroethane		ND	ND	20
2-Butanone		ND.	ND	50
1,1,1-Trichloroethane		210 🖠	ND	20
Carbon Tetrachloride		ND	ND	20
Vinyl Acetate		ND	ND	50
Bromodichloromethane		ND	ND	20
1,2-Dichloropropane		ND	ND	20
trans-1,3-Dichloropropene		ND	ND	20
Trichloroethene		ND	ND	20
Dibromochloromethane		ND	ND	20
1,1,2-Trichloroethane		ND	ND	20
Benzene		ND	ND	20
cis-1,3-Dichloropropene		ND	ND	20
2-Chloroethylvinyl ether		ND	ND	50
Bromoform		ND	ND .	20
4-Methyl-2-pentanone		ND	ND	50
2-Hexanone		ND	ND	50
Tetrachloroethene		391	ND	20
1,1,2,2-Tetrachloroethane		ND	ND	20
Toluene		₹26.3	ND	20
Chlorobenzene		ND	ND	
Ethylbenzene		ND	ND	20
Styrene	~	ND -	ND	20
Total Xylenes		110.	ND	20
, <b></b>		A L V .	ND	20



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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

01/23/89

Attn: Anne Burke 714/666/1120

Project Building 8 ITT Project #8707-0006

Sample #: 9004102001

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/29/88, 1030

Method: Grab

I.D.: 8-181

====METHOD====	==RESULT== ===UNIT=== Analyzed 1/17/89	===MDL====
EPA 608/8080	ND <250000 ng/wipe	
EPA 608/8080	ND <250000 ng/wipe	
EPA 608/8080	ND <250000 ng/wipe	
EPA 608/8080	ND <250000 ng/wipe	
EPA 608/8080		
EPA 608/8080		
EPA 608/8080	ND <250000 ng/wipe	
	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	Analyzed 1/17/89  EPA 608/8080 ND <250000 ng/wipe EPA 608/8080 ND <250000 ng/wipe EPA 608/8080 ND <250000 ng/wipe EPA 608/8080 ND <250000 ng/wipe EPA 608/8080 ND <250000 ng/wipe EPA 608/8080 ND <250000 ng/wipe EPA 608/8080 ND <250000 ng/wipe

Sample #: 9004102002

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/29/88, 1035

Method: Grab

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Sample #: 9004102003 Collector: Client

Received: 01/04/89 Sampling Date & Time: 12/29/88, 1040

Method: Grab / Type: Solid

I.D.: 8-183

-EPA 608/8080 (PCBs only)-	===METHOD====	==RESULT== Analyzed	===UNIT=== 1/17/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <25000	ng/wipe	•
Aroclor - 1242	EPA 608/8080	ND <25000	ng/wipe	
Aroclor - 1248	EPA 608/8080	570000	ng/wipe	•
Aroclor - 1254	EPA 608/8080	ND <25000		•
Aroclor - 1260	EPA 608/8080	ND <25000		

Sample #: 9004102004 Collector: Client

Received: 01/04/89 Sampling Date & Time: 12/29/88, 1045

Type: Solid Method: Grab

I.D.: 8-184

	Analyzed 1/17/89
EPA 608/8080	ND <250000 ng/wipe
EPA 608/8080	ND <250000 ng/wipe
EPA 608/8080	ND <250000 ng/wipe
EPA 608/8080	ND <250000 ng/wipe
EPA 608/8080	1600000 ng/wipe
EPA 608/8080	ND <250000 ng/wipe
EPA 608/8080	ND <250000 ng/wipe
	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080

Collector: Client

Sample #: 9004102005 Received: 01/04/89 Sampling Date & Time: 12/29/88, 1050

Method: Grab Type: Solid

I.D.: 8-185

-EPA 608/8080 (PCBs only)-

Analyzed 1/17/89

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=======CONSTITUENT=======	====METHOD====	==RESULT== ===UNIT===	===MDL====
Aroclor - 1016	EPA 608/8080	ND <250000 ng/wipe	
Aroclor - 1221	EPA 608/8080	ND <250000 ng/wipe	
Aroclor - 1232	EPA 608/8080	ND <250000 ng/wipe	•
Aroclor - 1242	EPA 608/8080	ND <250000 ng/wipe	•
Aroclor - 1248	EPA 608/8080	1500000 ng/wipe	
Aroclor - 1254	EPA 608/8080	ND <250000 ng/wipe	
Aroclor - 1260	EPA 608/8080	ND <250000 ng/wipe	

Sample #: 9004102006

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/29/88, 1055

Method: Grab

-EPA 608/8080 (PCBs only)-	magnet is the defent of a	Analyzed	1/17/89
Aroclor - 1016	EPA 608/8080	ND <250000 1	nalvina
Aroclor - 1221	EPA 608/8080	ND <250000	
Aroclor - 1232	EPA 608/8080	ND <250000 i	• •
Aroclor - 1242		ND <250000 1	
Aroclor - 1248	EPA 608/8080	1300000 1	
Aroclor - 1254 Aroclor - 1260		ND <250000	
MIUCIUI - 1200	EPA 608/8080	ND <250000 i	ng/wipe



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01/30/89

Attn: Anne Burke 714/666/1120

Project- Building 8 ITT Project #8707-0006

Sample #: 9004102301

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/30/88, 1100

Method: Grab

-======CONSTITUENT======== -EPA 608/8080 (PCBs only)-	====METHOD=====	==RESULT== Analyzed	
Aroclor - 1016	EPA 608/8080	ND <2500	ng/wipe ng/wipe ng/wipe ng/wipe
Aroclor - 1221	EPA 608/8080	ND <2500	
Aroclor - 1232	EPA 608/8080	ND <2500	
Aroclor - 1242	EPA 608/8080	ND <2500	
Aroclor - 1248	EPA 608/8080	ND <2500	
Aroclor - 1254	EPA 608/8080	26000	
Aroclor - 1260	EPA 608/8080	ND <2500	



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01/30/89

Attn: Anne Burke 714/666/1120

Project- Building 8 ITT Project #8707-0006

Sample #: 9004102302 Received: 01/04/89

Collector: Client

Type: Solid

Sampling Date & Time: 12/30/88, 1100

Method: Grab

I.D.: 8-188

Aroclor - 1260

=======CONSTITUENT========= -EPA 608/8080 (PCBs only)-

====METHOD===== ==RESULT== ===UNIT=== Analyzed 1/19/89

Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254

EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080

EPA 608/8080

ND <25000 ng/wipe ND <25000 ng/wipe ND <25000 ng/wipe ND <25000 ng/wipe

EPA 608/8080 EPA 608/8080

98000 ng/wipe ND <25000 ng/wipe

ND <25000 ng/wipe



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01/30/89

Attn: Anne Burke 714/666/1120

Project- Building 8 ITT Project #8707-0006

Sample #: 9004102303 Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/30/88, 1100

Method: Grab

I.D.: 8-189

=======CONSTITUENT======= ====METHOD===== ==RESULT== ===UNIT=== -EPA 608/8080 (PCBs only)-Analyzed 1/25/89 Aroclor - 1016 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1221 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1232 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1242 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1248 EPA 608/8080 2600 ng/wipe Aroclor - 1254 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1260 EPA 608/8080 ND <2500 ng/wipe

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01/30/89

Attn: Anne Burke 714/666/1120

Project- Building 8 ITT Project #8707-0006

Sample #: 9004102304 Received: 01/04/89

CONSTITUTENIN-

Type: Solid

Collector: Client

Sampling Date & Time: 12/30/88, 1100

Method: Grab]

-EPA 608/8080 (PCBs only)-	====METHOD=====	==RESULT== Analyzed	
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254 Aroclor - 1260	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <2500 ND <2500 ND <2500 ND <2500 ND <2500 64000 ND <2500	ng/wipe ng/wipe ng/wipe ng/wipe

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01/30/89

Attn: Anne Burke

714/666/1120

Project- Building 8 ITT

Project #8707-0006

Sample #: 9004102305

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/30/88, 1100 Method: Grab

-======CONSTITUENT===================================	====METHOD=====	==RESULT== Analyzed	
Aroclor - 1016	EPA 608/8080	ND <25000	ng/wipe
Aroclor - 1221	EPA 608/8080	ND <25000	ng/wipe
Aroclor - 1232	EPA 608/8080	ND <25000	ng/wipe
Aroclor - 1242	EPA 608/8080	ND <25000	ng/wipe
Aroclor - 1248	EPA 608/8080	ND <25000	ng/wipe
Aroclor - 1254	EPA 608/8080	350000	ng/wipe
Aroclor - 1260	EPA 608/8080	ND <25000	ng/wipe



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Attn: Anne Burke

714/666/1120

Project- Building 8 ITT

Project #8707-0006

Sample #: 9004102306

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/30/88, 1100

Method: Grab

	====METHOD=====	==RESULT== Analyzed	1/25/89
Aroclor - 1016	EPA 608/8080	ND <2500	ng/wipe
Aroclor - 1221	EPA 608/8080	ND <2500	ng/wipe
Aroclor - 1232	EPA 608/8080	ND <2500	ng/wipe
Aroclor - 1242	EPA 608/8080	ND <2500	ng/wipe
Aroclor - 1248	EPA 608/8080	4,900	ng/wipe
Aroclor - 1254	EPA 608/8080	ND <2500	ng/wipe
Aroclor - 1260	EPA 608/8080	ND <2500	ng/wipe



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01/30/89

Attn: Anne Burke 714/666/1120

Project- Building 8 ITT Project #8707-0006

Sample #: 9004102307

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/30/88, 1100 Method: Grab

I.D.: 8-193

	====METHOD=====	==RESULT== Analyzed	
Aroclor - 1016	EPA 608/8080	ND <2500	ng/wipe
Aroclor - 1221	EPA 608/8080	ND <2500	
Aroclor - 1232	EPA 608/8080	ND <2500	
Aroclor - 1242	EPA 608/8080	ND <2500	
Aroclor - 1248	EPA 608/8080	6000	
Aroclor - 1254	EPA 608/8080	ND <2500	
Aroclor - 1260	EPA 608/8080	ND <2500	



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01/30/89

Attn: Anne Burke 714/666/1120

Project- Building 8 ITT Project #8707-0006

Sample #: 9004102308

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/30/88, 1100

Method: Grab

I.D.: 8-194

=======CONSTITUENT======== ====METHOD===== ==RESULT== ===UNIT=== -EPA 608/8080 (PCBs only)-. Analyzed 1/19/89 Aroclor - 1016 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1221 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1232 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1242 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1248 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1254 EPA 608/8080 22000 ng/wipe Aroclor - 1260 EPA 608/8080 ND <2500 ng/wipe

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Page: 8 (cont.)

[ND = None Detected; (G) = Grab; NDL = Minimum Detection Limit)



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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349 01/30/89

Attn: Anne Burke 714/666/1120

Project Building 8 ITT Project #8707-0006

Sample #: 9004102309

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/30/88, 1100

Method: Grab

I.D.: 8-195

=======CONSTITUENT======= ==RESULT== ===UNIT=== ====METHOD===== -EPA 608/8080 (PCBs only)-Analyzed 1/20/89 Aroclor - 1016 EPA 608/8080 ND <2500 ng/wipe EPA 608/8080 Aroclor - 1221 ND <2500 ng/wipe Aroclor - 1232 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1242 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1248 EPA 608/8080 ND <2500 ng/wipe Aroclor - 1254 EPA 608/8080 34000 ng/wipe Aroclor - 1260 EPA 608/8080 ND <2500 ng/wipe



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01/30/89

Attn: Anne Burke 714/666/1120

Project- Building 8 ITT Project #8707-0006

Sample #: 9004102310

Received: 01/04/89

Type: Solid

Collector: Client

Sampling Date & Time: 12/30/88, 1100 Method: Grab

I.D.: 8-196

=======CONSTITUENT======== -EPA 608/8080 (PCBs only)-

====METHOD===== ==RESULT== ===UNIT=== Analyzed 1/20/89

Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254 Aroclor - 1260

EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080

EPA 608/8080

ND <250000 ng/wipe ND <250000 ng/wipe ND <250000 ng/wipe ND <250000 ng/wipe

2300000 ng/wipe ND <250000 ng/wipe

ND <250000 ng/wipe

Reviewed

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January 20, 1989

A.L. BURKE ENGINEERS 1162 North Kraemer Place Anaheim, CA 92806 ATTN: Ms. Anne Burke

ANALYSIS NO.: G-8900417-001/010

ANALYSES: Miscellaneous DATE SAMPLED: 03-Jan-1989

DATE SAMPLE REC'D: 04-Jan-1989 PROJECT: ITT Hazardous Waste Inv.

87-07-0006

Enclosed with this letter is the report on the chemical and physical analyses on the samples from ANALYSIS NO: G-8900417-001/010 shown above.

The samples were received by CRL in a chilled state, intact, and with the chain-of-custody record attached.

Solid samples are reported on an "as received" basis.

Please note that ND() means not detected at the detection limit expressed within the parentheses.

REVIEWED

APPROVED



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# Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE ANAHEIM, CA 92806 ATTN: Ms. Anne Burke

Analysis No.: G-8900417-001 Date Sampled: 3-JAN-1989 Date Sample Rec'd: 4-JAN-1989 Date Analyzed: 16-JAN-1989

Sample Type: SOLID Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-197-S

Analysis	Units	Result	Blank	Detection Limit
TPH Recoverable (EPA 418.1)	mg/kg	6000.	ND	250

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### Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE ANAHEIM, CA 92806

ATTN: Ms. Anne Burke

Analysis No.: G-8900417-001

Date Sampled: 3-JAN-1989 Date Sample Rec'd: 4-JAN-1989

Date Analyzed: 13-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006 Sample ID: 8-197-S

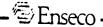
Date Extracted: 07-Jan-1989

Polychlorinated Biphenols (EPA 8080)

Units: mg/kg

Analysis	Result	Blank	Detection Limit
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	ND ND ND ND 5700 ND ND	ND ND ND ND ND ND	1000 1000 1000 1000 1000 1000

Note: Higher detection limits due to sample matrix.



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#### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8900417-001 Date Sampled: 3-JAN-1989

Date Sample Rec'd: 4-JAN-1989 Date Analyzed: 11-JAN-1989

Sample Type: SOLID 3

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-197-S

Halogenated Volatile Organics (EPA 8010)

Analysis	Result	Blank	Limit	
Chloromethane	ND	ND	50	
Bromomethane	ND	ND	50 50	
Vinyl Chloride	ND	ND	50	
Chloroethane	ND	ND	50	
Methylene Chloride	ND.	ND	50	
Trichlorofluoromethane	ND	ND	50	
1,1-Dichloroethene	ND	ND	50	
1,1-Dichloroethane	ND	ND	50	
trans-1,2-Dichloroethene	ND	ND	50	
Chloroform	ND	ND	50	
1,2-Dichloroethane	ND	ND	50	
1,1,1-Trichloroethane	ND	ND	50	
Carbon Tetrachloride	ND	ND	50	
Bromodichloromethane	ND	ND	50	
1,2-Dichlorobenzene	ND	ND	50	
1,2-Dichloropropane	ND	ND	50	
trans-1,3-Dichloropropene	ND	ND	50	
Trichloroethene	ND	ND	50	
Dibromochloromethane	ND	ND	50	
1,1,2-Trichloroethane	ND	ND	50	
cis-1,3-Dichloropropene	ND	ND	50	
2-Chloroethylvinyl ether	ND	ND	50	
Bromoform	ND	ND	50	
Tetrachloroethene	ND	ND	50	
1,1,2,2-Tetrachloroethane	ND	, ND	50	
Chlorobenzene	ND	ND		
1,3-Dichlorobenzene	ND		50	
1,4-Dichlorobenzene	ND	ND	50	
- ,	MD	ND	50	

- Enseco

#### CRL Environmental - South Coast

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#### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke

Analysis No.: G-8900417-002 Date Sampled: 3-JAN-1989 Date Sample Rec'd: 4-JAN-1989 Date Analyzed: 16-JAN-1989 Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-197-1'

Analysis	Units	Result	Blank	Detection Limit
TPH Recoverable (EPA 418.1)	mg/kg	33.	ND	1



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#### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8900417-002 Date Sampled: 3-JAN-1989

Date Sample Rec'd: 4-JAN-1989 Date Analyzed: 13-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-197-1'

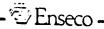
Date Extracted: 07-Jan-1989

Polychlorinated Biphenols (EPA 8080)

Units: mg/kg

Analysis	Result	Blank	Detection Limit
Aroclor-1016	• • • • • • • •	•••••	
	ND	ND	250
Aroclor-1221	ND	ND	250
Aroclor-1232		= =	
Aroclor-1242	ND	ND	250
. — — — — — .	ND	ND	250
Aroclor-1248	1700	ND	250
Aroclor-1254	ND	ND	
Aroclor-1260	<del></del>		250
- <del></del>	ND	ND	250

Note: Higher detection limits due to sample matrix.



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#### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke

Analysis No.: G-8900417-002 Date Sampled: 3-JAN-1989 Date Sample Rec'd: 4-JAN-1989

Date Analyzed: 11-JAN-1989

Sample Type: SOLID Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-197-1'

Halogenated Volatile Organics (EPA 8010)

Analysis	Result	Blank	Detection Limit
Chloromethane	ND	ND.	
Bromomethane	ND	ND ND	50
Vinyl Chloride	ND	ND	50
Chloroethane	· ND	ND.	50
Methylene Chloride	ND ND		50
Trichlorofluoromethane	ND	ND	. 50
1,1-Dichloroethene	ND	ND ND	50
1,1-Dichloroethane	ND	ND	50 50
trans-1,2-Dichloroethene	ND	ND	50
Chloroform	ND	ND	50 50
1,2-Dichloroethane	ND	ND	50
1,1,1-Trichloroethane	ND	ND	50 50
Carbon Tetrachloride	ND	ND	50 50
Bromodichloromethane	ND	ND	50 50
1,2-Dichlorobenzene	ND	ND	
1,2-Dichloropropane	ND	ND	50
trans-1,3-Dichloropropene	ND	ND	50
Trichloroethene	ND	ND	50
Dibromochloromethane	ND	ND ND	50
1,1,2-Trichloroethane	ND		50
cis-1,3-Dichloropropene		ND	50
2-Chloroethylvinyl ether	ND	ND	50
Bromoform	ND	ND	50
Tetrachloroethene	ND	ND	50
1,1,2,2-Tetrachloroethane	ND	ND	50
Chlorobenzene	ND	ND	50
1,3-Dichlorobenzene	ND	ND	50
1,4-Dichlorobenzene	. ND	ND	50
T'4-preuroroneuseus	ND	ND	50



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# Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke

Analysis No.: G-8900417-003 Date Sampled: 3-JAN-1989 Date Sample Rec'd: 4-JAN-1989

Date Analyzed: 16-JAN-1989 Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-198-S

Detection Analysis Units Result Blank Limit TPH Recoverable (EPA 418.1) mg/kg ND 500



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### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke

Analysis No.: G-8900417-003 Date Sampled: 3-JAN-1989 Date Sample Rec'd: 4-JAN-1989 Date Analyzed: 13-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-198-S

Date Extracted: 07-Jan-1989

Polychlorinated Biphenols (EPA 8080)

Units: mg/kg

Analysis	Result	Blank	Detection Limit
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	ND ND ND 150 ND ND	ND ND ND ND ND ND	25 25 25 25 25 25 25 25

Note: Higher detection limits due to sample matrix.

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# Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE ANAHEIM, CA 92806 ATTN: Ms. Anne Burke

Analysis No.: G-8900417-003 Date Sampled: 3-JAN-1989 Date Sample Rec'd: 4-JAN-1989 Date Analyzed: 11-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-198-S

Halogenated Volatile Organics (EPA 8010)

Analysis	Result	Blank	Detection Limit
Chloromethane	ND	*****	
Bromomethane	ND ND	ND	50
Vinyl Chloride	ND	ND	50
Chloroethane	ND ND	ND	50
Methylene Chloride	<del></del>	ND	50.
Trichlorofluoromethane	ND	ND	50
1,1-Dichloroethene	ND	ND	50
1,1-Dichloroethane	ND	ND	50
trans-1,2-Dichloroethene	ND	ND	50
Chloroform	ND	ND	50
1,2-Dichloroethane	ND	ND	50
1 1 1 Twicklesses	ND	ND	50
1,1,1-Trichloroethane Carbon Tetrachloride	ND	ND	50
Bromodiablements	ND	ND	50
Bromodichloromethane	ND	ND	50
1,2-Dichlorobenzene	ND	ND	50
1,2-Dichloropropane	ND	ND	50
trans-1,3-Dichloropropene	ND	ND	50
Trichloroethene	ND	ND	50
Dibromochloromethane	ND	ND	50
1,1,2-Trichloroethane	ND	ND	50
cis-1,3-Dichloropropene	ND	ND	50
2-Chloroethylvinyl ether	ND	ND	50
Bromoform	ND	ND	50
Tetrachloroethene	ND	ND	50 50
1,1,2,2-Tetrachloroethane	ND	ND	
Chlorobenzene	ND	ND	50
1,3-Dichlorobenzene	ND	ND	50
1,4-Dichlorobenzene	ND		50
w.	110	ND	50

Enseco.

# CRL Environmental - South Coast

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# Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8900417-004 Date Sampled: 3-JAN-1989

Date Sample Rec'd: 4-JAN-1989 Date Analyzed: 12-JAN-1989 Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-198-1'

Date Extracted: 07-JAN-1989

Polychlorinated Biphenols (EPA 8080)

Units: mg/kg

Analysis	Result	Blank	Detection Limit
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	ND ND ND ND O.5 ND ND	ND ND ND ND ND ND	0.1 0.1 0.1 0.1 0.1 0.1

NOTE: Higher detection limits due to sample matrix.

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#### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE ANAHEIM, CA 92806

Analysis No.: G-8900417-004 Date Sampled: 3-JAN-1989 Date Sample Rec'd: 4-JAN-1989 Date Analyzed: 11-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-198-1'

ATIN: Ms. Anne Burke

Halogenated Volatile Organics (EPA 8010)

Analysis	Result	Blank	Detection Limit	
Chloromethane				
Bromomethane	ND	ND	50	
Vinyl Chloride	ND	ND	50	
Chloroethane	ND	ИD	50	
Methylene Chloride	ND	ND	<b>50</b> .	
Trichlorofluoromethane	ND	ND	50	
1,1-Dichloroethene	ND	ND	.50	
1,1-Dichloroethane	ND	ND	50	
trans-1,2-Dichloroethene	ND	ND	50	
Chloroform	ND	ND	50	
1,2-Dichloroethane	ND	ND	50	
1,1,1-Trichloroethane	ND	ND	- 50	
Carbon Tetrachloride	ND	ND	50	
Bromodiahlamanahan	ND	ND	50	
Bromodichloromethane	ND .	· ND	50	
1,2-Dichlorobenzene	ND	ND	50	
1,2-Dichloropropane	ND	ND	50	
trans-1,3-Dichloropropene	ND	ND	50	
Trichloroethene	ND	ND `	-50	
Dibromochloromethane	ND	ND	50	
1,1,2-Trichloroethane	ND	ND	50	
cis-1,3-Dichloropropene	ND	ND	50	
2-Chloroethylvinyl ether	ND	ND	50	
Bromoform	ND	ND	50	
Tetrachloroethene	ND	ND	50	
1,1,2,2-Tetrachloroethane	ND	ND	50	
Chlorobenzene	ND	ND	•	
1,3-Dichlorobenzene	ND	ND	50	
1,4-Dichlorobenzene	ND	ND	50 50	



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# Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8900417-005 Date Sampled: 3-JAN-1989 Date Sample Rec'd: 4-JAN-1989

Date Analyzed: 16-JAN-1989 Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-199-S

Analysis	Units	Result	Blank	Detection Limit
TPH Recoverable (EPA 418.1)	mg/kg	870.	1.1	25

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# Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8900417-005 Date Sampled: 3-JAN-1989

Date Sample Rec'd: 4-JAN-1989 Date Analyzed: 12-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-199-S

Date Extracted: 07-JAN-1989

Polychlorinated Biphenols (EPA 8080)

Units: mg/kg

			Detection	
Analysis	Result	Blank	Limit	
Aroclor-1016	1			• • • • • • • • • • • • • • • • • • • •
Aroclor-1221	•	ND	ND	25
	•	ND	ND	25
Aroclor-1232		ND	.ND	
Aroclor-1242		ND		25
Aroclor-1248			ND	25
Aroclor-1254		73	ND	25
Aroclor-1260	•	ND	ND	25
		ND	ND	25

NOTE: Higher detection limits due to sample matrix.

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### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8900417-005 Date Sampled: 3-JAN-1989 Date Sample Rec'd: 4-JAN-1989 Date Analyzed: 11-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-199-S

Halogenated Volatile Organics (EPA 8010)

Analysis	Result	Blank	Detectior Limit
Chloromethane	ND	ND	50
Bromomethane	ND	ND	50
Vinyl Chloride	ND	ND	50
Chloroethane	ND	ND	50
Methylene Chloride	ND	ND	50
Trichlorofluoromethane	ND	ND	50
1,1-Dichloroethene	ND	ND	50 50
1,1-Dichloroethane	ND	ND	50
trans-1,2-Dichloroethene	ND	ND	50
Chloroform	ND	ND	50
1,2-Dichloroethane	ND	ND	50
1,1,1-Trichloroethane	ND	ND	50
Carbon Tetrachloride	ND	ND	50
Bromodichloromethane	ND	~ ND	50
1,2-Dichlorobenzene	ND	ND	50
1,2-Dichloropropane	ND	ND	50
trans-1,3-Dichloropropene	ND	ND	50
Trichloroethene	ND	ND	50
Dibromochloromethane	ND	ND	50
1,1,2-Trichloroethane	ND	ND	50
cis-1,3-Dichloropropene	ND	ИD	50
2-Chloroethylvinyl ether	ND	ND	50
Bromoform	· ND	ND	50
Tetrachloroethene	ND	ND	50
1,1,2,2-Tetrachloroethane	ND	ND	50
Chlorobenzene	ND	ND	50
1,3-Dichlorobenzene	ND	ND	50
1,4-Dichlorobenzene	ND	ND	50

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# Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke

Analysis No.: G-8900417-006 Date Sampled: 3-JAN-1989 Date Sample Rec'd: 4-JAN-1989 Date Analyzed: 16-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-199-1'

	e entre		•	
Analysis	Units	Result	Blank	Detection Limit
TPH Recoverable (EPA 418.1)				
TIN RECOVERABLE (EFA 418.1)	mg/kg	11.	1.3	1

Enseco

# CRL Environmental - South Coast

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### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE ANAHEIM, CA 92806

ATTN: Ms. Anne Burke

Analysis No.: G-8900417-006 Date Sampled: 3-JAN-1989 Date Sample Rec'd: 4-JAN-1989 Date Analyzed: 12-JAN-1989

Sample Type: SOLID Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-199-1'

Date Extracted: 07-JAN-1989

Polychlorinated Biphenols (EPA 8080)

		Detection	
Analysis	Result	Blank	Limit
Aroclor-1016	• • • • • • • • • • • • • • • • • • • •		
	ND	ND	0.02
Aroclor-1221	ND.	ND	0.02
Aroclor-1232	ND	ND	
Aroclor-1242	ND		0.02
Aroclor-1248		ND	0.02
Aroclor-1254	0.04	ND	0.02
	ND .	ND	0.02
Aroclor-1260	. ND	ND	0.02

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### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke

Analysis No.: G-8900417-006 Date Sampled: 3-JAN-1989 Date Sample Rec'd: 4-JAN-1989

Date Analyzed: 11-JAN-1989 Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-199-1'

Halogenated Volatile Organics (EPA 8010)

Analysis	Result	Blank	Detection Limit
Chloromethane	ND	ND	50
Bromomethane	ND	ND	50 50
Vinyl Chloride	. ND	ND	50
Chloroethane	ND	ND ND	50 50
Methylene Chloride	ND	ND	50 50
Trichlorofluoromethane	ND	ND	50 50
1,1-Dichloroethene	ND ND	ND	
1,1-Dichloroethane	ND	ND	50 50
trans-1,2-Dichloroethene	ND	ND	50 50
Chloroform	ND	ND	50
1,2-Dichloroethane	ND	ND	50
1,1,1-Trichloroethane	ND	ND	50 50
Carbon Tetrachloride	ND	ND	50
Bromodichloromethane	ND	ND	50 50
1,2-Dichlorobenzene	ND	ND	50 50
1,2-Dichloropropane	ND	ND	50 50
trans-1,3-Dichloropropene	ND	ND	50 50
Trichloroethene	ND	ND	50 50
Dibromochloromethane	ND	ND	
1,1,2-Trichloroethane	ND	ND '	50
cis-1,3-Dichloropropene	ND	ND	50 50
2-Chloroethylvinyl ether	ND .		50
Bromoform		ND	50
Tetrachloroethene	ND	ND	50
1,1,2,2-Tetrachloroethane	ND	ND	50
Chlorobenzene	ND	ND	50
1,3-Dichlorobenzene	ND	ND	50
1,4-Dichlorobenzene	ND	ND	50
-1- premioropensens	ND	ND	50



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### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE ANAHEIM, CA 92806

ATTN: Ms. Anne Burke

Analysis No.: G-8900417-007 Date Sampled: 3-JAN-1989

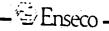
Date Sample Rec'd: 4-JAN-1989 Date Analyzed: 16-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-200-S

				Domondon
Analysis	Units	Result	Blank	Detection Limit
TPH Recoverable (EPA 418.1)	*******	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		
I'm Recoverable (EPA 418.1)	mg/kg	19000.	ND	1000



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#### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke

Analysis No.: G-8900417-007 Date Sampled: 3-JAN-1989

Date Sample Rec'd: 4-JAN-1989

Date Analyzed: 12-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-200-S

Date Extracted: 07-JAN-1989

Polychlorinated Biphenols (EPA 8080)

Units: mg/kg

Analysis	Resu	lt	Blank	Detection Limit
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248		ND ND ND ND	ND ND ND ND	100 100 100 100
Aroclor-1260		ND ND	ND ND ND	100 100 100

NOTE: Higher detection limits due to sample matrix.

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#### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8900417-007 Date Sampled: 3-JAN-1989 Date Sample Rec'd: 4-JAN-1989

Date Analyzed: 11-JAN-1989 Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-200-S

Halogenated Volatile Organics (EPA 8010)

Analysis	Result	Blank	Detection Limit
Chloromethane	ND	ND	50
Bromomethane	ND	ND	50
Vinyl Chloride	ND	ND	50
Chloroethane	ND	ND	50
Methylene Chloride	ND	ND	50
Trichlorofluoromethane	ND	ND	50
1,1-Dichloroethene	ND	· ND	50
1,1-Dichloroethane	ND	ND	50
trans-1,2-Dichloroethene	ND -	ND	50
Chloroform	ND	ND	50
1,2-Dichloroethane	ND	ND	50
1,1,1-Trichloroethane	ND	ND	50
Carbon Tetrachloride	ND	ND	50
Bromodichloromethane	ND	ND	50
1,2-Dichlorobenzene	. ND	ND	50
1,2-Dichloropropane	ND	ND	50
trans-1,3-Dichloropropene	ND	ND	50
Trichloroethene	ND	ND	50
Dibromochloromethane	ND	ND	50
1,1,2-Trichloroethane	ND	ND	50
cis-1,3-Dichloropropene	ND	ND	50
2-Chloroethylvinyl ether	ND	ND	50
Bromoform	ND	ND	50
Tetrachloroethene	ND	ND	50
1,1,2,2-Tetrachloroethane	ND	ND	50
Chlorobenzene	ND	ND	50
1,3-Dichlorobenzene	ND	ND	. 50
1,4-Dichlorobenzene	ND	ND	50



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#### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE ANAHEIM, CA 92806

ATTN: Ms. Anne Burke

Analysis No.: G-8900417-008 Date Sampled: 3-JAN-1989 Date Sample Rec'd: 4-JAN-1989

Date Analyzed: 16-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-200-1'

Analysis	Units	Result	Blank	Detection Limit
TPH Recoverable (EPA 418.1)	mg/kg	20600	ND	1000

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#### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8900417-008 Date Sampled: 3-JAN-1989

Date Sample Rec'd: 4-JAN-1989
Date Analyzed: 11-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-200-1'

Halogenated Volatile Organics (EPA 8010)

Analysis	Result	Blank	Detection Limit
Chloromethane	ND	ND	E0
Bromomethane	ND	ND	50 50
Vinyl Chloride	ND		50
Chloroethane	ND ND	ND	50 50
Methylene Chloride	ND	ND	50
Trichlorofluoromethane	,	ND	50
1,1-Dichloroethene	ND ND	ND	50
1,1-Dichloroethane	ND	ND	50
trans-1,2-Dichloroethene	ND	ND	50
Chloroform	ND ND	ND	50
1,2-Dichloroethane	ND ND	ND ND	50
1,1,1-Trichloroethane	ND	ND	50 50
Carbon Tetrachloride	ND	ND ND	50 50
Bromodichloromethane	ND	ND ND	50
1,2-Dichlorobenzene	ND	ND ND	50
1,2-Dichloropropane	ND	ND	50
trans-1,3-Dichloropropene	ND	ND	50
Trichloroethene	ND	ND ND	50
Dibromochloromethane	ND	ND	50
1,1,2-Trichloroethane	ND	ND	50
cis-1,3-Dichloropropene	ND		50
2-Chloroethylvinyl ether	ND	ND	50
Bromoform		ND	50
Tetrachloroethene	ND	ND	50
1,1,2,2-Tetrachloroethane	ND	ND	50
Chlorobenzene	ND	ND	50
1,3-Dichlorobenzene	ND	ND	50
1,4-Dichlorobenzene	ND	ND	50
TIT DESILATION CHIZCHE	ND	ND	50

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

02/01/89

Attn: Anne Burke 714/666/1120

Project- ITT Building 8 Project # 87-07-0006

Sample #: 9013104801

Received: 01/13/89

Type: Solid

Collector: Client

Sampling Date & Time: 01/06/89, 1000

Method: Grab

I.D.: 8-202

======================================	====METHOD=====	==RESULT== Analyzed	===UNIT=== 1/25/89
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254 Aroclor - 1260	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <250000 ND <250000 ND <250000 ND <250000 380000 ND <250000 ND <250000	ng/wipe ng/wipe ng/wipe ng/wipe ng/wipe

The Report Cover Letter is an integral part of this report.

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without authorization is prohibited.

02/01/89

#### CRL Environmental - Ventura

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

Attn: Anne Burke 714/666/1120

Project- ITT Building 8 Project # 87-07-0006

Sample #: 9013104802

Received: 01/13/89

Type: Solid

Collector: Client

Sampling Date & Time: 01/06/89, 1010

Method: Grab

I.D.: 8-203

-=======CONSTITUENT===================================	====METHOD=====	==RESULT== Analyzed	
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254 Aroclor - 1260	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <250000 ND <250000 ND <250000 ND <250000 2200000 ND <250000 ND <250000	ng/wipe ng/wipe ng/wipe ng/wipe

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02/01/89

Attn: Anne Burke 714/666/1120

Project- ITT Building 8 Project # 87-07-0006

Sample #: 9013104803

Received: 01/13/89

Type: Solid

Collector: Client

Sampling Date & Time: 01/06/89, 1015 Method: Grab

I.D.: 8-204

	====METHOD=====	==RESULT== Analyzed	
Aroclor - 1016 Aroclor - 1221	EPA 608/8080	ND <250000	
Aroclor - 1232		ND <250000 ND <250000	ng/wipe
Aroclor - 1242 Aroclor - 1248	EPA 608/8080 EPA 608/8080	ND <250000 4200000	
Aroclor - 1254 Aroclor - 1260	EPA 608/8080 EPA 608/8080	ND <250000 ND <250000	ng/wipe

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Page: 3 (cont.)

[ND = None Detected; (G) = Grab; NDL = Minimum Detection Limit]

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02/01/89

Attn: Anne Burke 714/666/1120

Project - ITT Building 8 Project # 87-07-0006

Sample #: 9013104804

Received: 01/13/89

Type: Solid

Collector: Client

Sampling Date & Time: 01/06/89, 1020

Method: Grab

I.D.: 8-205

-=======CONSTITUENT===================================	====METHOD=====	==RESULT== Analyzed	===UNIT=== 1/25/89
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <25000 ND <25000 ND <25000 ND <25000 270000	ng/wipe ng/wipe
Aroclor - 1254 Aroclor - 1260	EPA 608/8080 EPA 608/8080	ND <25000 ND <25000	ng/wipe

The Report Cover Letter is an integral part of this report.

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02/01/89

Attn: Anne Burke 714/666/1120

Project- ITT Building 8 Project # 87-07-0006

Sample #: 9013104805

Received: 01/13/89

Type: Solid

Collector: Client

Sampling Date & Time: 01/06/89, 1030

Method: Grab

I.D.: 8-206

========CONSTITUENT===================================	====METHOD=====	==RESULT== Analyzed	===UNIT=== 1/25/89
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <25000 ND <25000 ND <25000 ND <25000 210000 ND <25000	ng/wipe ng/wipe ng/wipe ng/wipe
Aroclor - 1260	EPA 608/8080	ND <25000	

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02/01/89

Attn: Anne Burke 714/666/1120

Project - ITT Building 8
Project # 87-07-0006

Sample #: 9013104806

Received: 01/13/89

Type: Liquid

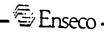
Collector: Client

Sampling Date & Time: 01/09/89, 1100

Method: Grab

I.D.: 8-207

======================================	====METHOD====	= ==RESULT== Analyzed	
Aroclor - 1016	EPA 608/8080	ND <0.005	
Aroclor - 1221 Aroclor - 1232	EPA 608/8080 EPA 608/8080	ND <0.005 ND <0.005	
Aroclor - 1242 Aroclor - 1248	EPA 608/8080 EPA 608/8080	ND <0.005 0.039	
Aroclor - 1254	EPA 608/8080	ND <0.005	mg/L
Aroclor - 1260	EPA 608/8080	ND <0.005	wd/r



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#### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8900417-008 Date Sampled: 3-JAN-1989 Date Sample Rec'd: 4-JAN-1989

Date Analyzed: 13-JAN-1989

Sample Type: SOLID 3 Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-200-1'

Date Extracted: 07-Jan-1989

Polychlorinated Biphenols (EPA 8080)

Units: mg/kg

Analysis	Result	Blank	Detection Limit
Aroclor-1016		• • • • • •	
· - ·	ND	; ND	50.
Aroclor-1221	ND	ND	50
Aroclor-1232	ND	ND	50
Aroclor-1242	ND	ND '	50 50
Aroclor-1248	210		
Aroclor-1254		ND	50
	ИĎ	ND	50
Aroclor-1260	ND	ND	50

Note: Higher detection limits due to sample matrix.

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#### Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806

Sample ID: 8-201-S

ATTN: Ms. Anne Burke

Analysis No.: G-8900417-009

Date Sampled: 3-JAN-1989

Date Sample Rec'd: 4-JAN-1989

Date Analyzed: 13-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

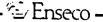
Date Extracted: 07-Jan-1989

Polychlorinated Biphenols (EPA 8080)

Units: mg/kg

Analysis	Result	Blank	Detection Limit
Aroclor-1016			• • • • • • • • • • • • • • • • • • • •
·	ND	ND	1.
Aroclor-1221	ND	ND	1
Aroclor-1232	ND	ND	1
Aroclor-1242	ND	ND	1
Aroclor-1248	2.	NĎ	i i
Aroclor-1254	ND	ND	i
Aroclor-1260	ND	ND	ĩ.

Note: Higher detection limits due to sample matrix.



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#### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE ANAHEIM, CA 92806

Analysis No.: G-8900417-009 Date Sampled: 3-JAN-1989

Date Sample Rec'd: 4-JAN-1989 Date Analyzed: 11-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-201-S

ATTN: Ms. Anne Burke

Halogenated Volatile Organics (EPA 8010)

Analysis	Result	Blank	Detection Limit
Chlamanahana	110		
Chloromethane Bromomethane	ND	ND	50
	ND	ND	. 50
Vinyl Chloride Chloroethane	ND	ND	· 50
Methylene Chloride	ND	ND	50 50
Trichlorofluoromethane	ND ND	ND	50 50
1,1-Dichloroethene	ND	ND ND	50
1,1-Dichloroethane	ND	ND	50
trans-1,2-Dichloroethene	ND	ND	50 50
Chloroform	ND	ND	50
1,2-Dichloroethane	ND	ND	50
1,1,1-Trichloroethane	ND	ND	50
Carbon Tetrachloride	ND	ND	50
Bromodichloromethane	ND	ND	50
1,2-Dichlorobenzene	ND	ND	50
1,2-Dichloropropane	ND	ND	50
trans-1,3-Dichloropropene	ND	ND ND	50
Trichloroethene	ND	ND	50 ·
Dibromochloromethane	ND	ND	50
1,1,2-Trichloroethane	ND	ND	50
cis-1,3-Dichloropropene	ND	ND ·	50
2-Chloroethylvinyl ether	ND	ND	50
Bromoform	ND	ND.	50 50
Tetrachloroethene	ND	ND	50
1,1,2,2-Tetrachloroethane	ND	ND	50 50
Chlorobenzene	ND	ND	50 50
1,3-Dichlorobenzene	ND	ND	50
1,4-Dichlorobenzene	ND	ND	50
-			

Enseco

# CRL Environmental - South Coast

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# Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE ANAHEIM, CA 92806 ATTN: Ms. Anne Burke

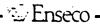
Analysis No.: G-8900417-010 Date Sampled: 3-JAN-1989 Date Sample Rec'd: 4-JAN-1989 Date Analyzed: 16-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-201-1'

Analysis	Units	Result	Blank	Detection Limit
TPH Recoverable (EPA 418.1)	mg/kg	20.	ND	1



# CRL Environmental - South Coast

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#### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE ANAHEIM, CA 92806 Analysis No.: G-8900417-010
Date Sampled: 3-JAN-1989
Date Sample Rec'd: 4-JAN-1989
Date Analyzed: 11-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. 87-07-0006

Sample ID: 8-201-1'

ATTN: Ms. Anne Burke

Halogenated Volatile Organics (EPA 8010)

Units: ug/kg

Analysis	Result	Blank	Detection Limit
Chloromethane	ND	ND	50
Bromomethane	ND	ND	50
Vinyl Chloride	ND	ND	50
Chloroethane	ND.	ND	50
Methylene Chloride	ND	ND	50
Trichlorofluoromethane	ND	ND	<b>50</b>
1,1-Dichloroethene	ND	ДИ	50
1,1-Dichloroethane	ND	ND	50
trans-1,2-Dichloroethene	ND	ND	50
Chloroform	ND	ND	50
1,2-Dichloroethane	ND	ND	50
1,1,1-Trichloroethane	ND	ND	50
Carbon Tetrachloride	ND	ND	50
Bromodichloromethane	ND	ND	50
1,2-Dichlorobenzene	ND	ND	50
1,2-Dichloropropane	ND	ND	50
trans-1,3-Dichloropropene	ND	ND	50
Trichloroethene	ND	ND	50
Dibromochloromethane	ND	ND	50
1,1,2-Trichloroethane	ND	ND	50
cis-1,3-Dichloropropene	ND	ND	50
2-Chloroethylvinyl ether	ND	ND	50
Bromoform	ND	ND	50
Tetrachloroethene	ND	ND	50
1,1,2,2-Tetrachloroethane	ND	ND	50
Chlorobenzene	ND	ND	50
1,3-Dichlorobenzene	ND	ND	50
1,4-Dichlorobenzene	ND	ND	50

# CRL Environmental - South Coast

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#### LABORATORY REPORT

A.L. BURKE ENGINEERS 1162 North Kraemer Place Anaheim, CA 92806 ATTN: Ms. Anne Burke

ANALYSIS NO.: G-8900417-001/010

ANALYSES: Miscellaneous DATE SAMPLED: 03-Jan-1989

DATE SAMPLE REC'D: 04-Jan-1989

SAMPLE TYPE: "Solid)

PROJECT: ITT Hazardous Waste Inv.

87-07-0006

# QA/QC SUMMARY

<u>Date</u>	Parameter(method)	Average Spike Recovery%	Acceptable Range%	Relative Percent Difference	Acceptable Range%
07 <b>-</b> Jan-89	Aroclor 1260 (EPA 8080, PCB's)	74	59-115	1	23
16-Jan-89 P	Total Recoverable etroleum Hydrocarbon (EPA 418.1)	s 98	70-117	2	15
11-Jan-89	1,1-Dichloroethene (EPA 8010)	91	60-120	9	40
11-Jan-89	Trichloroethene (EPA 8010) Chlorobenzene	90	60-120	22	40
11-9 all-63	(EPA 8010)	77	60-120	40	40

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February 8, 1989

A.L. BURKE ENGINEERS 1162 North Kraemer Place Anaheim, CA 92806 ATTN: Ms. Anne Burke

ANALYSIS NO.: G-8901112-001/010

ANALYSES: Miscellaneous DATE SAMPLED: 11-JAN-1989

DATE SAMPLE REC'D: 11-JAN-1989 PROJECT: ITT Hazardous Waste Inv.

(#87-07-0006)

Enclosed with this letter is the report on the chemical and physical analyses on the samples from ANALYSIS NO: G-8901112-001/010 shown above.

The samples were received by CRL in a chilled state, intact, and with the chain-of-custody record attached.

Solid samples are reported on an "as received" basis.

Please note that ND( ) means not detected at the detection limit expressed within the parentheses.

Please note that the following cross references regarding PCB's are as follow:

ENSECO-CRL SAMPLE ID	CLIENT'S SAMPLE ID
9012113601-901112-001S	8-208-S
9012113602-901112-002S	8-208-1'
9012113603-901112-003S	8-209-S
9012113604-901112-0045	8-209-1'
9012113605-901112-0055	8-210-S
9012113606-901112-006S	8-210-1'
9012113607-901112-0075	8 <b>-</b> 211-S
9012113608-901112-008S 9012113609-901112-009S	8-211-1'
9012113609-901112-0095	8-212-S
3012113010-301112-0105	8-212-1'

REVIEWED

- Terel Kimbell
APPROVED

2810 Bunsen Avenue • Ventura, CA 93003 (805) 650-0546 • (800) LAB-1-CRL FAX: (805) 648-2755

CRL-Garden Grove 7440 Lincoln Way Garden Grove, CA 92641 01/31/89

Attn: Technical Services

714/898/2125

Project: A.L.Burke

Sample #: 9012113601 Collector: Client

Received: 01/12/89 Sampling Date & Time: 01/11/89, ****

Type: Solid Method: Not Specified

I.D.: 901112-001s: 8-208-s

=======CONSTITUENT======== ==== ====METHOD==== ==RESULT== ===UNIT=== ===MDL==== Analyzed 1/23/89 -EPA 608/8080 (PCBs only)-EPA 608/8080 ND <1000 mg/kg Aroclor - 1016 EPA 608/8080 ND <1000 mg/kg Aroclor - 1221 EPA 608/8080 ND <1000 mg/kg Aroclor - 1232 ND <1000 mg/kg EPA 608/8080 Aroclor - 1242 EPA 608/8080 26000 mg/kg Aroclor - 1248 EPA 608/8080 -ND <1000 mg/kg Aroclor - 1254 ND <1000 mg/kg EPA 608/8080 Aroclor - 1260

Sample #: 9012113602

Received: 01/12/89

Type: Solid

Collector: Client

Sampling Date & Time: 01/11/89, ****

Method: Not Specified

I.D.: 901112-002s: 8-208-1'

-EPA 608/8080 (PCBs only)-		Analyzed 1/24/89
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <100 mg/kg ND <100 mg/kg ND <100 mg/kg ND <100 mg/kg 1900 mg/kg ND <100 mg/kg ND <100 mg/kg

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Sample #: 9012113603

Received: 01/12/89

Type: Solid

Collector: Client

Sampling Date & Time: 01/11/89, ****

Method: Not Specified

I.D.: 901112-003s: 8-209-s

=======CONSTITUENT===================================	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/24/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <1000	mg/kg	•
Aroclor - 1221	EPA 608/8080	ND <1000	mg/kg	
Aroclor - 1232	EPA 608/8080	ND <1000	mg/kg	
Aroclor - 1242	EPA 608/8080	ND <1000	mg/kg	
Aroclor - 1248	EPA 608/8080	26000	mg/kg	
Aroclor - 1254	EPA 608/8080	ND <1000	mg/kg	
Aroclor - 1260	EPA 608/8080	ND <1000	mg/kg	

Sample #: 9012113604

Received: 01/12/39

Type: Solid

Collector: Client

Sampling Date & Time: 01/11/89, ****

Method: Not Specified

I.D.: 901112-004s: 8-209-1'

-EPA 608/8080 (PCBs only)-	•	Analyzed 1/24/89
Aroclor - 1016 Aroclor - 1221	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <0.5 mg/kg ND <0.5 mg/kg ND <0.5 mg/kg ND <0.5 mg/kg ND <0.5 mg/kg 82 mg/kg ND <0.5 mg/kg
.1100101		

Sample #: 9012113605.

Received: 01/12/89

Type: Solid

Collector: Client

Sampling Date & Time: 01/11/89, ***

Method: Not Specified

I.D.: 901112-005s: 8-210-s

-EPA 608/8080 (PCBs only)-

Analyzed 1/24/89

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====METHOD====	==RESULT== ===UNIT===	===MDL====
		* · · · ·
EPA 608/8080	ND < 0.5 mg/kg	
EPA 608/8080	ND < 0.5 mg/kg	
EPA 608/8080	ND < 0.5 mg/kg	
EPA 608/8080	ND < 0.5 mg/kg	
EPA 608/8080	120 mg/kg	
EPA 608/8080	ND < 0.5 mg/kg	
EPA 608/8080	ND < 0.5 mg/kg	
	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	EPA 608/8080 ND <0.5 mg/kg EPA 608/8080 ND <0.5 mg/kg EPA 608/8080 ND <0.5 mg/kg EPA 608/8080 ND <0.5 mg/kg EPA 608/8080 ND <0.5 mg/kg EPA 608/8080 120 mg/kg EPA 608/8080 ND <0.5 mg/kg

Sample #: 9012113606 Collector: Client

Received: 01/12/89 Sampling Date & Time: 01/11/89, ***

Type: Solid Method: Not Specified

I.D.: 901112-006s: 8-210-1'

-EPA 608/8080 (PCBs enly)-	•.	Analyzed 1/24/89
Aroclor - 1016	EPA 608/8080	ND <0.05 mg/kg
Aroclor - 1221	EPA 608/8080	ND <0.05 mg/kg
Aroclor - 1232	EPA 608/8080	ND <0.05 mg/kg
Aroclor - 1242	EPA 608/8080	ND <0.05 mg/kg
Aroclor - 1248	EPA 608/8080 EPA 608/8080	0.71 mg/kg ND <0.05 mg/kg
Aroclor - 1254 Aroclor - 1260	EPA 608/8080	ND <0.05 mg/kg

Sample #: 9012113607 Collector: Client

Received: 01/12/89 Sampling Date & Time: 01/11/89, ****

Type: Solid Method: Not Specified

I.D.: 901112-007s: 8-211-s

-EPA 608/8080 (PCEs onl	y)-		Analyze	1/24/89
Aroclor - 1016		A 608/8080	ND <100	
Aroclor - 1221		0808/8080 A	ND <1000	mg/kg
Aroclor - 1232	EP	A 608/8080	ND <100	mg/kg
Aroclor - 1242	EP	A 608/8080	ND <1000	mg/kg
Aroclor - 1248	EF	A 608/8080	6100	0 mg/kg
Aroclor - 1254	ĒP	A 608/8080	ND <100	mg/kg

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______

Sample #: 9012113608 Collector: Client

Received: 01/12/89 Sampling Date & Time: 01/11/89, ****

Type: Solid Method: Not Specified

I.D.: 901112-008s: 8-211-1'

-EPA 608/8080 (PCBs only)-	•	Analyzed 1/24/89
Aroclor - 1016	EPA 608/8080	ND < 1000 mg/kg
Aroclor - 1221	EPA 608/8080	ND <1000 mg/kg
Aroclor - 1232	EPA 608/8080	ND <1000 mg/kg
Aroclor - 1242	EPA 608/8080	ND <1000 mg/kg
Aroclor - 1248	EPA 608/8080	46000 mg/kg
Aroclor - 1254	EPA 608/8080	ND < 1000 mg/kg
Aroclor - 1260	EPA 608/8080	ND <1000 mg/kg

Sample #: 9012113609 Collector: Client

Received: 01/12/89 Sampling Date & Time: 01/11/89, ****

Type: Solid Method: Not Specified

I.D.: 901112-009s: 8-212-s

-EPA 608/8080 (PCBs only)-	•	Analyzed	1/24/89
Aroclor - 1016	EPA 608/8080	ND <0.5	me/ke
Aroclor - 1221	EPA 608/8080	ND <0.5	
Aroclor - 1232	EPA 608/8080	ND <0.5	
Aroclor - 1242	EPA 608/8080	ND <0.5	
Aroclor - 1248	EPA 608/8080 EPA 608/8080	71 ND <0.5	
Aroclor - 1254 Aroclor - 1260	EPA 608/8080	ND <0.5	
MIDCIDI - 1200	L. A 000/0000		015

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Sample #: 9012113610

Received: 01/12/89

Type: Solid

Collector: Client

Sampling Date & Time: 01/11/89, ****

Method: Not Specified

I.D.: 901112-010s: 8-212-1'

=======CONSTITUENT===================================	====METHOD====	==RESULT== Analyzed	===UNIT=== 1/24/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <0.05	mg/kg	
Aroclor - 1221	EPA 608/8080	ND <0.05		
Aroclor - 1232	EPA 608/8080	ND <0.05		-
Aroclor - 1242	EPA 608/8080	ND <0.05		
Aroclor - 1248	EPA 608/8080		mg/kg	
Aroclor - 1254	EPA 608/8080	ND <0.05		
Aroclor - 1260	EPA 608/8080	ND <0.05		

Reviewed

hour Courtois

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Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806

ATTN: Ms. Anne Burke

17-JAN-1989 TPH (EPA 418.1)

Analysis No.: G-8901112-001/010

Date Sampled: 11-JAN-1989

Date Sample Rec'd: 11-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. (87-07-0006)

QA/QC Summary

Average

Matrix Spike

Acceptable Percent Recovery Range Difference Range

Acceptable

Parameter (Method)

100 70-117

15

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February 8, 1989

A.L. BURKE ENGINEERS 1162 North Kraemer Place Anaheim, CA 92806 ATTN: Ms. Anne Burke

ANALYSIS NO.: G-8901112-001/010

ANALYSES: Miscellaneous DATE SAMPLED: 11-JAN-1989

DATE SAMPLE REC'D: 11-JAN-1989 PROJECT: ITT Hazardous Waste Inv.

(#87-07-0006)

Enclosed with this letter is the report on the chemical and physical analyses on the samples from ANALYSIS NO: G-8901112-001/010 shown above.

The samples were received by CRL in a chilled state, intact, and with the chain-of-custody record attached.

Solid samples are reported on an "as received" basis.

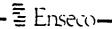
Please note that ND() means not detected at the detection limit expressed within the parentheses.

Please note that the following cross references regarding PCB's are as follow:

ENSECO-CRL SAMPLE ID	CLIENT'S SAMPLE ID
9012113601-901112-0015	8-208-S
9012113602-901112-002S	8-208-1'
9012113603-901112-0035	8-209-S
9012113604-901112-0045	8-209-1'
9012113605-901112-005S	8-210-S
9012113606-901112-006S	8-210-1'
9012113607-901112-007S	8-211-S
9012113608-901112-008S	8-211-1'
9012113609-901112-009S	8-212-S
9012113610-901112-010S	8-212-1
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REVIEWED

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APPROVED



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# Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8901112-001 Date Sampled: 11-JAN-1989

Date Sample Rec'd: 11-JAN-1989 Date Analyzed: 17-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. (87-07-0006)

Sample ID: 8-208-S

Analysis

Units

Result

Blank

Limit

TPH Recoverable (EPA 418.1)

mg/kg

4500.

ND

100

置Ensoco-

Enseco - CRL / South Coast

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Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8901112-002 Date Sampled: 11-JAN-1989 Date Sample Rec'd: 11-JAN-1989 Date Analyzed: 17-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. (87-07-0006)

Sample ID: 8-208-1'

		,		
Analysis	Units	Result	Blank	Detection Limit
TPH Recoverable (EPA 418.1)	mg/kg	220.	ND ·	7

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Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806

ATTN: Ms. Anne Burke

Analysis No.: G-8901112-003 Date Sampled: 11-JAN-1989

Date Sample Rec'd: 11-JAN-1989 Date Analyzed: 17-JAN-1989

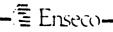
Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. (87-07-0006)

Sample ID: 8-209-S

Analysis Units Result Blank Limit

TPH Recoverable (EPA 418.1) mg/kg 1700. ND 50



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FAX: (714) 891-5917

Laboratory Report

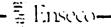
A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8901112-004 Date Sampled: 11-JAN-1989 Date Sample Rec'd: 11-JAN-1989 Date Analyzed: 17-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. (87-07-0006)
Sample ID: 8-209-1'

Detection Analysis Result Blank Limit TPH Recoverable (EPA 418.1) mg/kg ND 1



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Laboratory Report

A.L. BURKE ENGINEERS
1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8901112-005 Date Sampled: 11-JAN-1989

Date Sample Rec'd: 11-JAN-1989
Date Analyzed: 17-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. (87-07-0006)

Sample ID: 8-210-S

Analysis Units Result Blank Limit

TPH Recoverable (EPA 418.1) mg/kg 2100. ND 100

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FAX: (714) 891-5917

Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8901112-006 Date Sampled: 11-JAN-1989 Date Sample Rec'd: 11-JAN-198

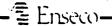
Date Sample Rec'd: 11-JAN-1989 Date Analyzed: 17-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. (87-07-0006)

Sample ID: 8-210-1'

Analysis	Units	Result	Blank	Limit
TPH Recoverable (EPA 418.1)	mg/kg	220.	ND	10



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Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8901112-007 Date Sampled: 11-JAN-1989

Date Sample Rec'd: 11-JAN-1989 Date Analyzed: 17-JAN-1989

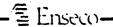
Sample Type: SOLID 3

Project: ITT HAZARDOUS WASTE INV.(87-07-0006)

Sample ID: 8-211-S

Analysis Units Result Blank Limit

TPH Recoverable (EPA 418.1) mg/kg 4300 ND 125



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# Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE

Analysis

TPH Recoverable (EPA 418.1)

ANAHEIM, CA 92806

ATTN: Ms. Anne Burke

Analysis No.: G-8901112-008

Date Sampled: 11-JAN-1989

Date Sample Rec'd: 11-JAN-1989

Date Analyzed: 17-JAN-1989

Sample Type: SOLID

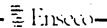
Project: ITT HAZARDOUS WASTE INV. (87-07-0006)

Sample ID: 8-211-1'

Units Result Blank Limit

mg/kg 2,500. ND 50

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Laboratory Report

A.L. BURKE ENGINEERS
1162 NORTH KRAEMER PLACE

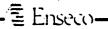
ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8901112-009
Date Sampled: 11-JAN-1989
Date Sample Rec'd: 11-JAN-1989
Date Analyzed: 17-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. (87-07-0006)

Sample ID: 8-212-S

Analysis	Units	Result	Blank	Detection Limit
TPH Recoverable (EPA 418.1)	mg/kg	1,600.	ND	109



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Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE ANAHEIM, CA 92806 ATTN: Ms. Anne Burke

Analysis No.: G-8901112-010 Date Sampled: 11-JAN-1989 Date Sample Rec'd: 11-JAN-1989 Date Analyzed: 17-JAN-1989

Sample Type: SOLID

Project: ITT HAZARDOUS WASTE INV. (87-07-0006)

Sample ID: 8-212-1'

Analysis	Units	Result	Blank	Detection Limit
TPH Recoverable (EPA 418.1)	mg/kg	64.	ND	3



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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

02/28/89

Attn: Anne Burke

714/666/1120

Project: ITT Haz. Waste Inv.

Project No. 87-07-0006

Sample #: 9047105801

Received: 02/16/89

Collector: G.Husson

Sampling Date & Time: 01/11/89, 0907

Method: "Hand Auger,

I.D.: 8-208-2'

Type: Soil 4

Bldg 8

========CONSTITUENT===================================	====METHOD=====	==RESULT== Analyzed	===UNIT=== 2/24/89
Aroclor - 1016	EPA 608/8080	ND <10	ma/ka
Aroclor - 1221	EPA 608/8080	ND <10	
Aroclor - 1232	EPA 608/8080	ND <10	
Aroclor - 1242	EPA 608/8080	ND <10	mg/kg
Aroclor - 1248	EPA 608/8080	800	mg/kg
Aroclor - 1254	EPA 608/8080	ND <10	mg/kg
Aroclor - 1260	EPA 608/8080	ND <10	mg/kg



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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

02/28/89

Attn: Anne Burke 714/666/1120

Project: ITT Haz. Waste Inv.

Project No. 87-07-0006

Sample #: 9047105802

Collector: J. Drew

Received: 02/16/89

Sampling Date & Time: 01/11/89, 0910

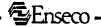
Type: Soil'

Method: "Hand Auger

I.D.: 8-208-3'

Bldg 8

====METHOD=====		===UNIT=== 2/24/89
EPA 608/8080	ND <10	ma/ka
EPA 608/8080		
EPA 608/8080		
EPA 608/8080		
EPA 608/8080		mg/kg
EPA 608/8080		
EPA 608/8080		
	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	Analyzed  EPA 608/8080 ND <10  EPA 608/8080 ND <10  EPA 608/8080 ND <10  EPA 608/8080 ND <10  EPA 608/8080 300  EPA 608/8080 ND <10



02/28/89

#### CRL Environmental - Ventura

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

Attn: Anne Burke 714/666/1120

Project: ITT Haz. Waste Inv.

Project No. 87-07-0006

Sample #: 9047105803

Received: 02/16/89

Type: Soil

Collector: J. Drew

Sampling Date & Time: 01/11/89, 0912

Method: Hand Auger

I.D.: 8-208-4'

Bldg 8

=======CONSTITUENT===================================	====METHOD=====	==RESULT== Analyzed	
Aroclor - 1016	EPA 608/8080	ND <10	mg/kg
Aroclor - 1221	EPA 608/8080	ND <10	
Aroclor - 1232	EPA 608/8080	ND <10	
Aroclor - 1242	EPA 608/8080	ND <10	mg/kg
Aroclor - 1248	EPA 608/8080	500	mg/kg
Aroclor - 1254	EPA 608/8080	ND <10	
Aroclor - 1260	EPA 608/8080	ND <10	



02/28/89

#### CRL Environmental - Ventura

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

Project: ITT Haz. Waste Inv. Project No. 87-07-0006

Attn: Anne Burke 714/666/1120

Sample #: 9047105804

Received: 02/16/89

Type: Soil

Collector: J. Drew

Sampling Date & Time: 01/11/89, 0915

Method: Hand Auger

I.D.: 8-208-5' Bldg 8 Subsurf. samp.

======================================	====METHOD=====	==RESULT== Analyzed	===UNIT=== 2/24/89
Aroclor - 1016	EPA 608/8080	ND <100	ma/ka
Aroclor - 1221	EPA 608/8080	ND <100	
Aroclor - 1232	EPA 608/8080	ND <100	
Aroclor - 1242	EPA 608/8080	ND <100	
Aroclor - 1248	EPA 608/8080		mg/kg
Aroclor - 1254	EPA 608/8080	ND <100	<b>.</b> .
Aroclor - 1260	EPA 608/8080	ND <100	



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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349 02/28/89

Attn: Anne Burke 714/666/1120

Project: ITT Haz. Waste Inv.

Project No. 87-07-0006

Sample #: 9047105805

Collector: J. Drew

Received: 02/16/89

Sampling Date & Time: 01/11/89, 0930

Type: Soil

Method: Hand Auger

I.D.: 8-209-2' Bldg 8

31dg 8 Subsurf. samp.

-======CONSTITUENT===================================	====METHOD=====	==RESULT== Analyzed	===UNIT=== 2/24/89
Aroclor - 1016	EPA 608/8080	ND <0.5	mg/kg
Aroclor - 1221	EPA 608/8080	ND <0.5	
Aroclor - 1232	EPA 608/8080	ND <0.5	
Aroclor - 1242	EPA 608/8080	ND <0.5	mg/kg
Aroclor - 1248	EPA 608/8080		mg/kg
Aroclor - 1254	EPA 608/8080	ND <0.5	
Aroclor - 1260	EPA 608/8080	ND <0.5	

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

02/28/89

Attn: Anne Burke

714/666/1120

Project: ITT Haz. Waste Inv.

Project No. 87-07-0006

Sample #: 9047105806

Received: 02/16/89

Type: Soil }

Collector: J. Drew

Sampling Date & Time: 01/11/89, 0932

Method: Hand Auger

I.D.: 8-209-3' Bldg 8 Subsurf. samp.

==RESULT== ===UNIT=== -EPA 608/8080 (PCBs only)-Analyzed 2/24/89 Aroclor - 1016 EPA 608/8080 ND < 5 mg/kgAroclor - 1221 EPA 608/8080 ND <5 mg/kg Aroclor - 1232 EPA 608/8080 ND < 5 mg/kgAroclor - 1242 EPA 608/8080 ND <5 mg/kg Aroclor - 1248 EPA 608/8080 200 mg/kg ND <5 mg/kg ND <5 mg/kg Aroclor - 1254 EPA 608/8080 Aroclor - 1260 EPA 608/8080

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02/28/89

Attn: Anne Burke

714/666/1120

Project: ITT Haz. Waste Inv.

Project No. 87-07-0006

Sample #: 9047105807

Received: 02/16/89

Type: Soil

Collector: J. Drew

Sampling Date & Time: 01/11/89, 0935

Method: Hand Auger

I.D.: 8-209-4'

Bldg 8

Subsurf. samp

========CONSTITUENT===================================	====METHOD==		= ===UNIT=== 1 2/24/89
Aroclor - 1016	EPA 608/8080	ND </th <th>mg/kg</th>	mg/kg
Aroclor - 1221	EPA 608/8080		mg/kg
Aroclor - 1232	EPA 608/8080		mg/kg
Aroclor - 1242	EPA 608/8080		mg/kg
Aroclor - 1248	EPA 608/8080		mg/kg
Aroclor - 1254	EPA 608/8080		mg/kg
Aroclor - 1260	EPA 608/8080		mg/kg

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349 02/28/89

Attn: Anne Burke 714/666/1120

Project: ITT Haz. Waste Inv.

Project No. 87-07-0006

Sample #: 9047105808

Received: 02/16/89

Type: Soil

Collector: J. Drew

Sampling Date & Time: 01/11/89, 0940

Method: Hand Auger }

I.D.: 8-209-5'

Bldg 8

Subsurf. samp.

======================================	====METHOD=====	==RESULT== Analyzed	===UNIT=== 2/24/89
Aroclor - 1016	EPA 608/8080	ND <10	mg/kg
Aroclor - 1221	EPA 608/8080	ND <10	mg/kg
Aroclor - 1232	EPA 608/8080	ND <10	
Aroclor - 1242	EPA 608/8080	ND <10	mg/kg
Aroclor - 1248	EPA 608/8080	220	mg/kg
Aroclor - 1254	EPA 608/8080	ND <10	
Aroclor - 1260	EPA 608/8080	ND <10	mg/kg

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02/28/89

Attn: Anne Burke

714/666/1120

Type: Soil }

Project: ITT Haz. Waste Inv.

Project No. 87-07-0006

Sample #: 9047105809

Received: 02/16/89

Collector: J. Drew

Sampling Date & Time: 01/11/89, 0947

Method: Hand Auger >

I.D.: 8-210-2' Bldg 8 Subsurf. samp

========CONSTITUENT===================================	====METHOD=====	==RESULT== Analyzed	===UNIT=== 2/25/89
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <0.05 ND <0.05 ND <0.05 ND <0.05 1.2 ND <0.05	mg/kg mg/kg mg/kg mg/kg mg/kg
Aroclor - 1260	EPA 608/8080	ND <0.05	mg/kg

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

02/28/89

Attn: Anne Burke

714/666/1120

Project: ITT Haz. Waste Inv.

Project No. 87-07-0006

Sample #: 9047105810

Received: 02/16/89

Type: Soil }

Collector: J. Drew

Sampling Date & Time: 01/11/89, 0950

Method: Hand Auger

I.D.: 8-210-3' Bldg 8 Subsurf. samp

======================================	====METHOD=====	==RESULT== Analyzed	===UNIT=== 2/25/89
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254 Aroclor - 1260	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <0.05 ND <0.05 ND <0.05 ND <0.05 1.1 ND <0.05 ND <0.05	mg/kg mg/kg mg/kg mg/kg mg/kg

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349 02/28/89

Attn: Anne Burke

714/666/1120

Project: ITT Haz. Waste Inv.

Project No. 87-07-0006

sample #: 9047105811

Received: 02/16/89

Type: Soil

Collector: J. Drew

Sampling_Date & Time: 01/11/89, 0953

Method: Hand Auger

I.D.: 8-210-4' Bldg 8 Subsurf. samp.

=======CONSTITUENT===================================	====METHOD=====	==RESULT== Analyzed	===UNIT=== 2/25/89
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254 Aroclor - 1260	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <0.1 ND <0.1 ND <0.1 ND <0.1 1.6 ND <0.1 ND <0.1	mg/kg mg/kg mg/kg mg/kg mg/kg

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Page: 11 (cont.)

[ND = None Detected; (G) = Grab; NDL = Minimum Detection Limit]

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Attn: Anne Burke

714/666/1120

02/28/89

Project: ITT Haz. Waste Inv.

Project No. 87-07-0006

Sample #: 9047105812

Received: 02/16/89 Type: Soil

Collector: J. Drew

Sampling Date & Time: 01/11/89, 0957

Method: Hand Auger

I.D.: 8-210-5'

Bldg 8

Subsurf. samp?

========CONSTITUENT===================================	====METHOD=====	==RESULT== Analyzed	
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <0.1 ND <0.1 ND <0.1 ND <0.1	mg/kg mg/kg
Aroclor - 1248 Aroclor - 1254 Aroclor - 1260	EPA 608/8080 EPA 608/8080 EPA 608/8080		mg/kg mg/kg

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Page: 12 (cont.)

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# Enseco -

# CRL Environmental - Ventura

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

02/28/89

Attn: Anne Burke

714/666/1120

Project: ITT Haz. Waste Inv.

Project No. 87-07-0006

Sample #: 9047105813

Received: 02/16/89

Type: Soil

Collector: J. Drew

Sampling Date & Time: 01/11/89, 1005

Method: Hand Auger

I.D.: 8-211-2' Bl

Bldg 8

Subsurf. samp.

-=======CONSTITUENT===================================	====METHOD=====	==RESULT== Analyzed	===UNIT=== 2/25/89
Aroclor - 1016	EPA 608/8080	ND <500	ma/ka
Aroclor - 1221	EPA 608/8080	ND <500	
Aroclor - 1232	EPA 608/8080	ND <500	
Aroclor - 1242	EPA 608/8080	ND <500	
Aroclor - 1248	EPA 608/8080	14000	
Aroclor - 1254	EPA 608/8080	ND <500	
Aroclor - 1260	EPA 608/8080	ND <500	

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

02/28/89

Attn: Anne Burke

714/666/1120

Project: ITT Haz. Waste Inv.

Project No. 87-07-0006

Sample #: 9047105814

Received: 02/16/89

Collector: J. Drew

Sampling Date & Time: 01/11/89, 1007

Method: Hand Auger

I.D.: 8-211-3'

 ${\tt Type: _Soil}_{\tt_{\lambda}}$ 

Bldg 8

========CONSTITUENT===================================	====METHOD=====	==RESULT== Analyzed	===UNIT=== 2/25/89
Aroclor - 1016	EPA 608/8080	ND <50	mg/kg
Aroclor - 1221	EPA 608/8080	ND <50	
Aroclor - 1232	EPA 608/8080	ND <50	
Aroclor - 1242	EPA 608/8080	ND <50	
Aroclor - 1248	EPA 608/8080	15000	
Aroclor - 1254	EPA 608/8080	ND <50	
Aroclor - 1260	EPA 608/8080	ND <50	



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02/28/89

Attn: Anne Burke

714/666/1120

Project: ITT Haz. Waste Inv.

Project No. 87-07-0006

Sample #: 9047105815

Received: 02/16/89 Type: Soil

Sampling Date & Time: 01/11/89, 1010

Method: Hand Auger

I.D.: 8-211-4'

Bldg 8

Subsurf. samp.

======================================	====METHOD=====	==RESULT== ===UNIT=== Analyzed 2/25/89
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <500 mg/kg ND <500 mg/kg ND <500 mg/kg ND <500 mg/kg 13000 mg/kg ND <500 mg/kg
Aroclor - 1260	EPA 608/8080	ND <500 mg/kg

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

02/28/89

Attn: Anne Burke

714/666/1120

Project: ITT Haz. Waste Inv.

Project No. 87-07-0006

Sample #: 9047105816

Received: 02/16/89

Collector: J. Drew

Sampling Date & Time: 01/11/89, 1015

Type: Soil 3

Method: Hand Auger

I.D.: 8-211-5'

Bldg 8

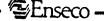
Subsurf. samp.

12day

========CONSTITUENT===================================	====METHOD=====	==RESULT== Analyzed	===UNIT== 2/24/89
Aroclor - 1016	EPA 608/8080	ND <500 i	ng/kg
Aroclor - 1221	EPA 608/8080	ND <500	
Aroclor - 1232	· · · · · · · · · · · · · · · · · · ·	ND <500 i	
Aroclor - 1242	EPA 608/8080	ND <500	
Aroclor - 1248	EPA 608/8080	16000 1	
Aroclor - 1254	EPA 608/8080	ND <500 i	• •
Aroclor - 1260	EPA 608/8080	ND <500 i	

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

02/28/89

Attn: Anne Burke

714/666/1120

Project: ITT Haz. Waste Inv.

Project No. 87-07-0006

Sample #: 9047105817

Received: 02/16/89

Type: Soil /

Collector: J. Drew

Sampling Date & Time: 01/11/89, 1023

Method: Hand Auger

I.D.: 8-212-2'

Bldg 8

Subsurf. samp.

=======CONSTITUENT======== ====METHOD===== ==RESULT== ===UN -EPA 608/8080 (PCBs only)-Analyzed 2/25/89 Aroclor - 1016 EPA 608/8080 ND < 0.05 mg/kgAroclor - 1221 EPA 608/8080 ND < 0.05 mg/kgAroclor - 1232 EPA 608/8080 ND < 0.05 mg/kgAroclor - 1242 EPA 608/8080 ND < 0.05 mg/kgAroclor - 1248 EPA 608/8080 5.6 mg/kgAroclor - 1254 EPA 608/8080 ND < 0.05 mg/kgAroclor - 1260 EPA 608/8080 ND < 0.05 mg/kg

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Page: 17 (cont.)

[ND = None Detected; (G) = Grab; NDL = Minimum Detection Limit]

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

02/28/89

Attn: Anne Burke

714/666/1120

Project: ITT Haz. Waste Inv.

Project No. 87-07-0006

Sample #: 9047105818

Received: 02/16/89

Type: Soil

Collector: J. Drew

Sampling Date & Time: 01/11/89, 1025

Method: Hand Auger

I.D.: 8-212-3'

Bldg 8 Subsurf. samp.

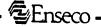
-======CONSTITUENT===================================	====METHOD=====	==RESULT== ===UNIT=== Analyzed 2/25/89
Aroclor - 1016	EPA 608/8080	ND <0.05 mg/kg
Aroclor - 1221	EPA 608/8080	ND <0.05 mg/kg
Aroclor - 1232	EPA 608/8080	ND <0.05 mg/kg
Aroclor - 1242	EPA 608/8080	ND <0.05 mg/kg
Aroclor - 1248	EPA 608/8080	3.4 mg/kg
Aroclor - 1254	EPA 608/8080	ND <0.05 mg/kg
Aroclor - 1260	EPA 608/8080	ND <0.05 mg/kg

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

02/28/89

Attn: Anne Burke

Project: ITT Haz. Waste Inv.

Project No. 87-07-0006

714/666/1120

Sample #: 9047105819

Received: 02/16/89

Type: Soil,

Collector: J. Drew

Sampling Date & Time: 01/11/89, 1030

Method: Hand Auger

I.D.: 8-212-4'

Bldg 8

Subsurf. samp.

=======CONSTITUENT===================================	====METHOD=====	==RESULT== Analyzed	
Aroclor - 1016	EPA 608/8080	ND <0.05	mg/kg
Aroclor - 1221	EPA 608/8080	ND <0.05	
Aroclor - 1232	EPA 608/8080	ND <0.05	
Aroclor - 1242	EPA 608/8080	ND <0.05	~
Aroclor - 1248	EPA 608/8080	1.0	
Aroclor - 1254	EPA 608/8080	ND <0.05	mg/kg
Aroclor - 1260	EPA 608/8080	ND <0.05	mg/kg

02/28/89

#### CRL Environmental - Ventura

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

Attn: Anne Burke 714/666/1120

Project: ITT Haz. Waste Inv. Project No. 87-07-0006

Sampling Date & Time: 01/11/89, 1035

I.D.: 8-212-5'

sample #: 9047105820

Received: 02/16/89

Type: Soil /

Bldg 8 Subsurf. samp?

Collector: J. Drew

Method: Hand Auger

=======CONSTITUENT======= ====METHOD===== ==RESULT== ===UNIT=== Analyzed 2/27/89 -EPA 608/8080 (PCBs only)-EPA 608/8080 ND < 0.05 mg/kgAroclor - 1016 EPA 608/8080 ND < 0.05 mg/kgAroclor - 1221

ND < 0.05 mg/kgEPA 608/8080 Aroclor - 1232 ND < 0.05 mg/kgEPA 608/8080 Aroclor - 1242 EPA 608/8080 0.75 mg/kgAroclor - 1248 EPA 608/8080 ND < 0.05 mg/kgAroclor - 1254 ND < 0.05 mg/kgAroclor - 1260 EPA 608/8080

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

02/01/89

Attn: Anne Burke 714/666/1120

Project- ITT Building 8 Project # 87-07-0006

Sample #: 9013104807 Received: 01/13/89

Type: Oil 3

Collector: Client

Sampling Date & Time: 01/12/89 0845

Method: Grab

I.D.: 8-213

========CONSTITUENT======== -EPA 608/8080 (PCBs only)-

Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254 Aroclor - 1260 ====METHOD=====

EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080

EPA 608/8080 EPA 608/8080 EPA 608/8080

==RESULT== ===UNIT=== Analyzed 1/18/89

ND <1000 mg/kg ND <1000 mg/kg ND <1000 mg/kg ND <1000 mg/kg 11000 mg/kg ~

ND <1000 mg/kg ND <1000 mg/kg

* Oil phase analyzed

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7440 Lincoln Way • Garden Grove, CA 92641 (714) 898-6370 • (213) 598-0458 • (800) LAB-I-CRL FAX: (714) 891-5917

April 27, 1989

A.L. BURKE ENGINEERS 1162 North Kraemer Place Anaheim, CA 92806 ATTN: Ms. Anne Burke

ANALYSIS NO.: G-8910824-001/010

ANALYSES: Miscellaneous

DATE SAMPLED: 13-Jan-1989, 28-Feb-1989

DATE RELOGGED: 18-Apr-1989

PROJECT: 87-07-0006

ITT Hazardous Waste Inv.

Enclosed with this letter is the report on the chemical and physical analyses on the samples from ANALYSIS NO: G-8910824-001/010 shown above.

The samples were received by CRL in a chilled state, intact, and with the chain-of-custody

Solid samples are reported on an "as received" basis.

Please note that ND( ) means not detected at the detection limit expressed within the

Please note the following cross reference regarding EPA Method 8080 (PCb's) analyses:

# Enseco-CRL Sample Identification

# Client's Sample Identification

· · · · · · · · · · · · · · · · · · ·	
N042089-3/12-910824-001S N042089-3/12-910824-002S N042089-3/12-910824-003S N042089-3/12-910824-004S N042089-3/12-910824-005S N042089-3/12-910824-006S N042089-3/12-910824-007S N042089-3/12-910824-008S N042089-3/12-910824-008S N042089-3/12-910824-009S	8-214-4 8-214-5 8-215-4 8-215-5 8-217-4 8-217-5 8-218-4
N042089-3/12-910824-0085 N042089-3/12-910824-010S	8-218-5 8-208-10 8-211-8'

7440 Lincoln Way • Garden Grove, CA 92641 (714) 898-6370 • (213) 598-0458 • (800) LAB-1-CR1. FAX: (714) 891-5917

### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE ANAHEIM, CA 92806 ATTN: Ms. Anne Burke

Analysis No.: G-8910824-001/002 Date Sampled: 13-JAN-1989 Date Sample Rec'd: 17-JAN-1989 Date Analyzed: 24-APR-1989 Date Relogged: 18-APR-1989 Sample Type: SOLID

Project: ITT HAZ. WASTE INV. (#87-07-0006)

Sample ID	TPH Recoverable mg/kg EPA 418.1
8-214-4	1,500.
8-214-5	2,300.
Blank	ND(1.0)

7440 Lincoln Way • Garden Grove, CA 92641 (714) 898-6370 • (213) 598-0458 • (800) LAB-I-CRL FAX: (714) 891-5917

# Laboratory Report.

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE ANAHEIM, CA 92806 ATTN: Ms. Anne Burke

Analysis No.: G-8910824-001/010

Date Sampled: 13-JAN-1989 28-FEB-1989

Date Sample Rec'd: 17-JAN-1989 Date Relogged: 18-APR-1989

Sample Type: SOLID

Project: ITT HAZ. WASTE INV. (#87-07-0006)

### QA/QC Summary

Date	Parameter	(Method)	Average Spike Recovery	Acceptable Range	Relative Percent Difference	Acceptable Range
24-APR-1989	TPH RECOVERAGE 418.1)	BLE (EPA	109	70-117	7.	15



7440 Lincoln Way . Garden Grove, CA 92641 (213) 598-0458 • (714) 898-6370 • (800) LAB-I-CRL FAX: (714) 891-5917

Enseco-CRL 7440 Lincoln Way Garden Grove, CA 92641 ATTN: Mr. Kevin Dodds

**PATCH**: ANALYSES:

N685 PCB's

PROJECT: A.L. Burke

Enclosed with this letter is the report on the analyses performed on samples N042089-3/12.

The sample extracts were received by CRL intact and with the chain-of-custody record attached.

Please note that ND means not detected and DL means detection limit.

Stated below are the pertinent quality control data.

Matrix: Extract

QA/QC Summary

Date	Parameter (Method)	Average Spike Recovery	Acceptable <u>Range</u>	Relative Percent <u>Difference</u>	Acceptable <u>Range</u>
04/21	Aroclor-1260 (EPA 8080)	86.	59-115	6	23



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### -ABORATORY REPORT

TO:

Enseco-CRL

7440 Lincoln Way

Garden Grove, CA 92641

ATTN: Mr. Kevin Dodds

PROJECT

A.L. Burke

ANALYSIS NO. 1 DATE SAMPLED:

DATE REC'D:

BATCHE

MATRIX:

N042089-3/12

1/13-2/28/89

04/20/89

N685

Extract &

Sample Identification: 910824-0015

Units: mg/kg

Polychlorinated Biphenyls (EPA 8080)

Parameter	Result	<u>Blank</u>	Detection Limit
Aroclor-1016	ND*	ND	1.6
Aroclor-1221	ND	ND	1.6
Aroclor-1232	ND	ND	1.6
Aroclor-1242	ND	ND	1.6
Aroclor-1248	12.	ND	1.6
Aroclor-1254	ND	ND	1.6
Aroclor-1260	ND	ND	1.6

Note: Higher detection limits due to sample matrix

*ND - not detected at the detection limit expressed within the parentheses.



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# LABORATORY REPORT

TO:

Enseco-CRL

7440 Lincoln Way

Garden Grove, CA 92641

ATTN: Mr. Kevin Dodds

PROJECT:

A.L. Burke

ANALYSIS NO. : DATE SAMPLED:

DATE REC'D:

BATCH: MATRIX: MPLED: C'D: N042089-3/12 1/13-2/28/89

04/20/89

N685

Extract

Sample Identification: 910824-0025

Units: mg/kg

mst: Polychlorinated Biphenyls (EPA 8080)

Paraecter	Result	<u>Blank</u>	Detection Limit
Aroclor-1016	ND*	ND	1.6
Aroclor-1221	ND	ND	1.6
Aroclor-1232	ND	ND	1.6
Aroclor-1242	ND	ND	1.6
Aroclor-1248	23.	ND	1.6
Aroclor-1254	ND	ND	1.6
Aroclor-1260	ND	ND	1.6

Note: Higher detection limits due to sample matrix

#ND — not detected at the detection limit expressed within the parentheses.





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#### CRL Environmental - Mobile Laboratories

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#### LABORATORY REPORT

TO:

Enseco-CRL

7440 Lincoln Way

Garden Grove, CA 92641

ATTN: Mr. Kevin Dodds

PROJECT:

A.L. Burke

AMALYSIS NO.: DATE SAMPLED: DATE REC'D: BATCH:

MATRIX:

N042089-3/12 1/13-2/28/89

04/20/89

N685

Extract

Sample Identification: 910824-0035

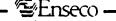
Units: mg/kg

Test: Polychlorinated Biphenyls (EPA 8080)

<u>Paramete</u> r	Result	Blank	Detection <u>Limit</u>
Aroclor-1016	ND*	ND	1.6
Aroclor-1221	ND	. ND	1.6
Aroclor-1232	ND	ND	1.6
Aroclor-1242	ND	ND	1.6
Aroclor-1248	<b>3.</b>	ND	1.6
Aroclor-1254	ND	ND	1.6
Aroclor-1260	ND	ND	1.6

Note: Higher detection limits due to sample matrix

*ND - not detected at the detection limit expressed within the parentheses.



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# LABORATORY REPORT

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Enseco-CRL

7440 Lincoln Way

Garden Grove, CA 92641 ATTN: Mr. Kevin Dodds

PROJECT:

A.L. Burke

ANALYSIS NO.: DATE SAMPLED: DATE REC'D: BATCH:

MATRIX:

N042089-3/12 1/13-2/28/89 04/20/89

N685 Extract

Sample Identification: 910824-0045

Units: mg/kg

Test: Polychlorinated Biphenyls (EPA 8080)

Peraecter	Result	Blank	Detection Limit
Aroclor-1016	ND*	ND	1.6
Aroclor-1221	ND	ND	1.6
Aroclor-1232	ND	ND	1.6
Aroclor-1242	ND ND	ND .	1.6
Aroclor-1248	2.	ND	1.6
Arocior-1254	ND	ND	1.6
Aroclor-1260	ND ·	ND	1.6

Note: Higher detection limits due to sample matrix

*ND - not detected at the detection limit expressed within the parentheses.

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#### LABORATORY REPORT

TO:

Enseco-CRL

7440 Lincoln Way

Garden Grove, CA 92641

ATTN: Mr. Kevin Dodds

PROJECT:

A.L. Burke

ANALYSIS NO.:

DATE SAMPLED:

DATE REC'D:

BATCH: MATRIX: N042089-3/12

1/13-2/28/89

04/20/89 N685

Extract

Sample Identification: 910824-005S

Units: mg/kg

Test: Polychlorinated Biphenyls (EPA 8080)

Parageter	Result	<u>Blank</u>	Detection <u>Limit</u>
Aroclor-1016	ND*	ND	1.6
Aroclor-1221	ND	ND	1.6
Aroclor-1232	ND '	ND	1.6
Aroclor-1242	ND	ND	1.6
Aroclor-1248	13.	ND	1.6
Aroclor-1254	ND	ND	1.6
Aroclor-1260	ND .	ND	1.6

Note: Higher detection limits due to sample matrix

*ND - not detected at the detection limit expressed within the parentheses.



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#### LABORATORY REPORT

TO:

Enseco-CRL

7440 Lincoln Way

Garden Grove, CA 92641

ATTN: Mr. Kevin Dodds

PROJECT:

A.L. Burke

ANALYSIS NO. :

DATE SAMPLED:

DATE REC'D: BATCH:

MATRIX:

N042089-3/12

1/13-2/28/89

04/20/89

N685

Extract

Sample Identification: 910824-006S

Units: mg/kg

Test: Polychlorinated Biphenyls (EPA 8080)

Paraseter	Result	Blank	Detection <u>Limit</u>
Aroclor-1016	ND*	ND	1.6
Aroclor-1221	ND .	ND	1.6
Aroclor-1232	ND `	ND	1.6
Aroclor-1242	ND	ND	1.6
Aroclor-1248	15.	ND	1.6
Aroclor-1254	ND	ND	1.6
Aroclor-1260	ND	NĎ	1.6

Note: Higher detection limits due to sample matrix

*ND - not detected at the detection limit expressed within the parentheses.

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### ABORATORY RÉPORT

TO:

Enseco-CRL

7440 Lincoln Way

Garden Grove, CA 92641

ATTN: Mr. Kevin Dodds

PROJECT:

A.L. Burke

ANALYSIS NO. :

DATE SAMPLED:

DATE REC'D:

**BATCH:** 

MATRIX:

N042089-3/12

1/13-2/28/89

04/20/89

N685

Extract

Sample Identification: 910824-007S

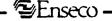
Units: mg/kg

Polychlorinated Biphenyls (EPA 8080) Test:

Parameter	Result	Blank	Detection <u>Limit</u>
Aroclor-1016	ND*	ND	32.
Aroclor-1221	ND	ND	32.
Aroclor-1232	ND	ND	32.
Aroclor-1242	ND	ND	32.
Aroclor-1248	400.	ND	32.
Aroclor-1254	GN	ND	32.
Aroclor-1260	. ND	ND	32.

Note: Higher detection limits due to sample matrix

*ND - not detected at the detection limit expressed within the parentheses.



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#### LABORATORY REPORT

TO:

Enseco-CRL

7440 Lincoln Way

Garden Grove, CA 92641

ATTN: Mr. Kevin Dodds

PROJECT:

A.L. Burke

ANALYSIS NO.:
DATE SAMPLED:
DATE REC'D:
BATCH:

HATRIX:

N042089-3/12 1/13-2/28/89 04/20/89

N685

Extract

Sample Identification: 910824-0085

Units: mg/kg

Test: Polychlorinated Biphenyls (EPA 8080)

Parageter	Result	Blank	Detection <u>Limit</u>
Aroclor-1016	ND*	ND	8.
Aroclor-1221	ND	ND	8.
Aroclor-1232	ND	ND	· 8.
Aroclor-1242	ND	ND	8.
Aroclor-1248	140.	ND	8.
Aroclor-1254	ND	ND	8.
Aroclor-1260	ND	ND	8.

Note: Higher detection limits due to sample matrix

*ND - not detected at the detection limit expressed within the parentheses.



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92641

#### LABORATORY REPORT

TOI

Enseco-CRL

7440 Lincoln Way

Garden Grove, CA

ATTN: Mr. Kevin Dodds

PROJECT:

A.L. Burke

ANALYSIS NO.: DATE SAMPLED:

DATE REC'D:

BATCH: MATRIX: N042089-3/12

1/13-2/28/89

04/20/89

N685

Extract

Sample Identification: 910824-0095

Units: mg/kg

Test: Polychlorinated Biphenyls (EPA 8080)

Parageter	Result	<u>Blank</u>	Detection Limit	
Aroclor-1016	ND*	ND	8.	
Aroclor-1221	ND	ND	8.	
Aroclor-1232	ND	ND	8.	
Aroclor-1242	ND	ND	8.	
Aroclor-1248	300.	ND	8.	
Aroclor-1254	ND	ND	8.	
Aroclor-1260	ND	ND	8.	

Note: Higher detection limits due to sample matrix

*ND - not detected at the detection limit expressed within the parentheses.



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Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806

ATTN: Ms. Anne Burke

Analysis No.: G-8901706-001 Date Sampled: 13-JAN-1989

Date Sample Rec'd: 17-JAN-1989

Date Analyzed: 23-JAN-1989

Sample Type: SOLID

Project: 87-07-0006 ITT HAZARDOUS WASTE INV.

Sample ID: 8-214-S

Analysis	Units	Result	Blank	Detection Limit
TPH Recoverable (EPA 418.1)	mg/kg	60000	ND	1639.



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FAX: (714) 891-5917

Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8901706-001 Date Sampled: 13-JAN-1989

Date Sample Rec'd: 17-JAN-1989

Date Analyzed: 26-JAN-1989

Sample Type: SOLID

Project: 87-07-0006 ITT HAZARDOUS WASTE INV. Date Extracted: 18-Jan-1989

Sample ID: 8-214-S

Polychlorinated Biphenols (EPA 8080)

Units: mg/kg

Analysis	Result	Blank	Detection Limit
Aroclor-1016	ND	ND	100
Aroclor-1221	ND	ND	100
Aroclor-1232	ND	ND	100
Aroclor-1242	ND	ND	100
Aroclor-1248	700.	ND	100
Aroclor-1254	ND	ND	100
Aroclor-1260	ND	ND	100

Higher detection limits due to sample matrix.



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Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8901706-002 Date Sampled: 13-JAN-1989

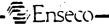
Date Sample Rec'd: 17-JAN-1989 Date Analyzed: 23-JAN-1989

Sample Type: SOLID

Project: 87-07-0006 ITT HAZARDOUS WASTE INV.

Sample ID: 8-214-1'

Detection Analysis Units Result Blank Limit TPH Recoverable (EPA 418.1) mg/kg 15000 · ND 725.



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FAX: (714) 891-5917

Laboratory Report

A.L. BURKE ENGINEERS
1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke

Sample ID: 8-214-1'

Analysis No.: G-8901706-002 Date Sampled: 13-JAN-1989

Date Sample Rec'd: 17-JAN-1989 Date Analyzed: 27-JAN-1989

Sample Type: SOLID

Project: 87-07-0006 ITT HAZARDOUS WASTE INV.

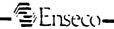
Date Extracted: 18-Jan-1989

Polychlorinated Biphenols (EPA 8080)

Units: mg/kg

Analysis	Result	Blank	Limit
Aroclor-1016	ND	ND	50
Aroclor-1221	ND	ND	50
Aroclor-1232	ND	ND	50
Aroclor-1242	ND	ND	50
Aroclor-1248	96.	ND	50
Aroclor-1254	ND	ND .	50
Aroclor-1260	ND	ND	50

Note: Higher detection limits due to sample matrix.



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FAX: (714) 891-5917

Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8901706-003 Date Sampled: 13-JAN-1989

Date Sample Rec'd: 17-JAN-1989 Date Analyzed: _23-JAN-1989

Sample Type: SOLID /

Project: 87-07-0006 ITT HAZARDOUS WASTE INV.

Sample ID: 8-215-S

Analysis	Units	Result	Blank	Detection Limit
TPH Recoverable (EPA 418.1)	mg/kg	7500.	ND	347.



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FAX: (714) 891-5917

Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806

ATTN: Ms. Anne Burke

Analysis No.: G-8901706-003

Date Sampled: 13-JAN-1989

Date Sample Rec'd: 17-JAN-1989

Date Analyzed: 30-JAN-1989

Sample Type: SOLID

Project: 87-07-0006 ITT HAZARDOUS WASTE INV.

Date Extracted: 18-Jan-1989

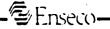
Sample ID: 8-215-S

Polychlorinated Biphenols (EPA 8080)

Units: mg/kg

A1	Result	Blank	Detection Limit
Analysis	Result	Diank	LIMIC
Aroclor-1016	ND	ИD	2000
Aroclor-1221	. ND	ND	2000
Aroclor-1232	ND	ND	2000
Aroclor-1242	ND	ND	2000
Aroclor-1248	15000.	ND	2000
Aroclor-1254	ND	ND	2000
Aroclor-1260	ND	ND	2000

Note: Higher detection limits due to sample matrix.



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### Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8901706-004 Date Sampled: 13-JAN-1989

Date Sample Rec'd: 17-JAN-1989 Date Analyzed: 23-JAN-1989

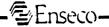
19-JAN-1989

Sample Type: SOLID

Project: 87-07-0006 ITT HAZARDOUS WASTE INV.

Sample ID: 8-215-1'

Analysis	Units	Result	Blank	Detection Limit
TPH Recoverable (EPA 418.1)	mg/kg	26.	ND	1
pH (EPA 9045)	units	6.42	N/A	N/A



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FAX: (714) 891-5917

Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke

Analysis No.: G-8901706-004 Date Sampled: 13-JAN-1989

Date Sample Rec'd: 17-JAN-1989 Date Analyzed: 26-JAN-1989 Sample Type: SOLID

Project: 87-07-0006 ITT HAZARDOUS WASTE INV. Date Extracted: 18-Jan-1989

Sample ID: 8-215-1'

Polychlorinated Biphenols (EPA 8080)

Units: mg/kg

Result	Blank	Limit
ND	ND	25
ND	ND	25
ND	ND	25
ND		25
30.		25
ND		25 .
ND	ИD	25
	ND ND ND ND 30.	ND ND ND ND ND ND ND ND ND ND ND ND ND N

Note: Higher detection limits due to sample matrix.

The Report Cover Letter is an integral part of this report.



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FAX: (714) 891-5917

Laboratory Report

A.L. BURKE ENGINEERS
1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8901706-005 Date Sampled: 13-JAN-1989

Date Sample Rec'd: 17-JAN-1989 Date Analyzed: 23-JAN-1989

Sample Type: SOLID

Project: 87-07-0006 ITT HAZARDOUS WASTE INV.

Sample ID: 8-216-S

Analysis Units Result Blank Limit

TPH Recoverable (EPA 418.1) mg/kg 240. ND 14



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FAX: (714) 891-5917

Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8901706-005 Date Sampled: 13-JAN-1989

Date Sample Rec'd: 17-JAN-1989

Date Analyzed: 26-JAN-1989

Sample Type: SOLID

Project: 87-07-0006 ITT HAZARDOUS WASTE INV.

Date Extracted: 18-Jan-1989

Sample ID: 8-216-S

Polychlorinated Biphenols (EPA 8080)

Units: mg/kg

Analysis	Result	Blank	Limit
Aroclor-1016	ND	ND	50
Aroclor-1221	ND.	ND	50
	ND	ND	50
Aroclor-1232	ND	ND	50
Aroclor-1242	97.	ND	50
Aroclor-1248	ND	ND	50
Aroclor-1254	ND ND	ND	50
Aroclor-1260	ַ עט	ND.	50

Note: Higher detection limits due to sample matrix.

Elseco-

### Enseco - CRL / South Coast

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FAX: (714) 891-5917

Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8901706-006 Date Sampled: 13-JAN-1989

Date Sample Rec'd: 17-JAN-1989 Date Analyzed: 23-JAN-1989

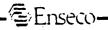
Sample Type: SOLID

Project: 87-07-0006 ITT HAZARDOUS WASTE INV.

Sample ID: 8-216-1'

Analysis Units Result Blank Limit

TPH Recoverable (EPA 418.1) mg/kg %5.9 ND 1



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FAX: (714) 891-5917

Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806

ATTN: Ms. Anne Burke

Analysis No.: G-8901706-006

Date Sampled: 13-JAN-1989

Date Sample Rec'd: 17-JAN-1989

Date Analyzed: 26-JAN-1989

Sample Type: SOLID

Project: 87-07-0006 ITT HAZARDOUS WASTE INV.

Date Extracted: 18-Jan-1989

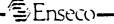
Sample ID: 8-216-1'

Polychlorinated Biphenols (EPA 8080)

Units: mg/kg

Analysis		Result	Blank	Detection Limit
Aroclor-1016		ND	ND	. 1
Aroclor-1221		ND	ND	1
Aroclor-1232		ND	ND	1
Aroclor-1242		ND	ND	1
Aroclor-1248		· 2.	ND	1
Aroclor-1254	4 - 1	ND	ND	1
Aroclor-1260		ND	ND	1

Note: Higher detection limits due to sample matrix.



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FAX: (714) 891-5917

Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE ANAHEIM, CA 92806

ATTN: Ms. Anne Burke

Date Sampled: 13-JAN-1989

Date Sample Rec'd: 17-JAN-1989 Date Analyzed: 23-JAN-1989

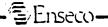
Analysis No.: G-8901706-007

Sample Type: SOLID

Project: 87-07-0006 ITT HAZARDOUS WASTE INV.

Sample ID: 8-217-S

Detection Analysis Units Result Blank Limit 7000.7 TPH Recoverable (EPA 418.1) ND 352 mg/kg



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Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE ANAHEIM, CA 92806

ATTN: Ms. Anne Burke

Analysis No.: G-8901706-007 Date Sampled: 13-JAN-1989

Date Sample Rec'd: 17-JAN-1989 Date Analyzed: 27-JAN-1989 Sample Type: SOLID

Project: 87-07-0006 ITT HAZARDOUS WASTE INV. Date Extracted: 18-Jan-1989

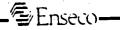
Sample ID: 8-217-S

Polychlorinated Biphenols (EPA 8080)

Units: mg/kg

Analysis	Result	Blank	Limit
Aroclor-1016	ND	ND	5000
Aroclor-1221	ND	ND	5000
Aroclor-1232	ИD	ND	5000
Aroclor-1242	ND	ND	5000
Aroclor-1248	19000.	ND	5000
Aroclor-1254	ND	ND	5000
Aroclor-1260	ND	ND	5000

Higher detection limits due to sample matrix.



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#### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke

Analysis No.: G-8901706-008 Date Sampled: 13-JAN-1989

Date Sample Rec'd: 17-JAN-1989 Date Analyzed: 23-JAN-1989 19-JAN-1989

Sample Type: SOLID

Project: 87-07-0006 ITT HAZARDOUS WASTE INV.

Sample ID: 8-217-1'

Analysis	Units	Result	Blank	Detection Limit
TPH Recoverable (EPA 418.1)	mg/kg units	6.75	ND N/A	1 N/A



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Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8901706-008 Date Sampled: 13-JAN-1989

Date Sample Rec'd: 17-JAN-1989 Date Analyzed: 27-JAN-1989

Sample Type: SOLID

Project: 87-07-0006 ITT HAZARDOUS WASTE INV. Date Extracted: 18-Jan-1989

Sample ID: 8-217-1'

Polychlorinated Biphenols (EPA 8080)

Units: mg/kg

Analysis	Result Blank		
101/	ND	ND	10
Aroclor-1016			10
Aroclor-1221	ND	ND	
Aroclor-1232	. ND	ND	10
Aroclor-1242	ND	ND	10
	12.	ND	10
Aroclor-1248		ND	10
Aroclor-1254	ND		
Aroclor-1260	ND	ND	10

Higher detection limits due to sample matrix.



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Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8901706-009 Date Sampled: 13-JAN-1989 Date Sample Rec'd: 17-JAN-1989

Date Analyzed: 27-JAN-1989

Sample Type: SOLID

Project: 87-07-0006 ITT HAZARDOUS WASTE INV. Date Extracted: 18-Jan-1989

Sample ID: 8-218-S

Polychlorinated Biphenols (EPA 8080)

Units: mg/kg

Analysis	Result		Detection Limit	
Aroclor-1016	ND	ND	500	
Aroclor-1221	ND	ND	500	
Aroclor-1232	ND	ND	500	
Aroclor-1242	ND	ND	500	
Aroclor-1248	5400.	ND	500	
Aroclor-1254	ND	ND	500	
Aroclor-1260	ND	ND	500	

Note: Higher detection limits due to sample matrix.



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Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8901706-010 Date Sampled: 13-JAN-1989 Date Sample Rec'd: 17-JAN-1989 Date Analyzed: 27-JAN-1989

Sample Type: SOLID

Project: 87-07-0006 ITT HAZARDOUS WASTE INV.

Date Extracted: 18-Jan-1989

Sample ID: 8-218-1'

Polychlorinated Biphenols (EPA 8080)

Units: mg/kg

Analysis	Result	Blank	Detection Limit
Aroclor-1016	ND	ND	250
Aroclor-1221	ND	ND	250 250
Aroclor-1232	ND	ND	250
Aroclor-1242	ND	ND	250
Aroclor-1248	1200.	ND	250
Aroclor-1254	· ND	ND	250
Aroclor-1260	ND	. ND	250



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Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8901706-009
Date Sampled: 13-JAN-1989
Date Sample Board: 17 Jan 16

Date Sample Rec'd: 17-JAN-1989 Date Analyzed: 23-JAN-1989

Sample Type: SOLID

Project: 87-07-0006 ITT HAZARDOUS WASTE INV.

Sample ID: 8-218-S

Analysis	Units	Result	Blank	Detection Limit
TPH Recoverable (EPA 418.1)	mg/kg	3000 🍠	ND	98



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Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8901706-010 Date Sampled: 13-JAN-1989 Date Sample Rec'd: 17-JAN-1989

Date Analyzed: 23-JAN-1989

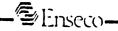
Sample Type: SOLID

Project: 87-07-0006 ITT HAZARDOUS WASTE INV.

Sample ID: 8-218-1'

Analysis Units Result Blank Limit

TPH Recoverable (EPA 418.1) mg/kg 170.4 ND 3



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Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Project: 87-07-0006 ITT HAZARDOUS WASTE INV.

Analysis No.: G-8901706-001/010 Date Sampled: 13-JAN-1989

Date Sample Rec'd: 17-JAN-1989 Sample Type: SOLID

QA/QC Summary

		Average Matrix		Relative		
Date	*****************	Spike Recovery	Acceptable Range	Percent Difference	Acceptable Range	
23-JAN-1989 18-JAN-1989	TPH (EPA 418.1) AROCLOR-1260 (EPA 8080)	106 96	70-117 59-115	1.	15 23	

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Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8901814-014 Date Sampled: 18-JAN-1989

Date Sample Rec'd: 18-JAN-1989 Date Analyzed: 30-JAN-1989

Sample Type: SOLID

Project: ITT HAZ. WASTE INV. (#87-07-0011)

Sample ID: 8-219

Date Extracted: 24-JAN-1989

Polychlorinated Biphenols (EPA 8080)

Units: ug/L

Analysis	Result	Blank	Detection Limit
Aroclor-1016	ND	ND	15
Aroclor-1221	ND	ND	15
Aroclor-1232	ND	ND	15
Aroclor-1242	ND	ND	15
Aroclor-1248	39.	ND	15
Aroclor-1254	ND	ND	15
Aroclor-1260	ND	ND	15

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

02/06/89

Attn: Anne Burke

714/666/1120

Project- ITT Bldg. #8

Sample #: 9027115701

Received: 01/27/89

Type: Solid

Collector: Client

Sampling Date & Time: 01/25/89, ****

Method: Not Specified

I.D.: 8-220-1

-======CONSTITUENT===================================	====METHOD====	==RESULT== Analyzed	===UNIT=== 2/6/89	===MDL====
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232	EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <10 ND <10 ND <10	mg/kg	
Aroclor - 1242 Aroclor - 1248 Aroclor - 1254 Aroclor - 1260	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <10	mg/kg mg/kg mg/kg	

Sample #: 9027115702

Received: 01/27/89

Type: Solid

Collector: Client

Sampling Date & Time: 01/25/89, ****

Method: Not Specified

I.D.: 8-220-2

-EPA 608/8080 (PCBs only)-		Analyzed 2/2/89
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <1 mg/kg ND <1 mg/kg ND <1 mg/kg ND <1 mg/kg ND <1 mg/kg
Aroclor - 1260	EPA 608/8080	ND <1 mg/kg ND <1 mg/kg

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Sample #: 9027124303

Received: 01/27/89

Type: Solid

Collector: Client

Sampling Date & Time: 01/25/89,

Method: Not Specified

I.D.: 8-222-1

====METHOD====	==RESULT== Analyzed	===UNIT=== 2/6/89	===MDL====
EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <1 ND <1 ND <1 6.8 ND <1	mg/kg mg/kg mg/kg mg/kg mg/kg	
	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	EPA 608/8080 ND <1 EPA 608/8080 ND <1 EPA 608/8080 ND <1 EPA 608/8080 ND <1 EPA 608/8080 ND <1 EPA 608/8080 ND <1 EPA 608/8080 ND <1	Analyzed 2/6/89  EPA 608/8080 ND <1 mg/kg EPA 608/8080 ND <1 mg/kg EPA 608/8080 ND <1 mg/kg EPA 608/8080 ND <1 mg/kg EPA 608/8080 ND <1 mg/kg EPA 608/8080 6.8 mg/kg EPA 608/8080 ND <1 mg/kg

Sample #: 9027124304

Received: 01/27/89

Type: Solid

Collector: Client

Sampling Date & Time: 01/25/89,

Method: Not Specified

I.D.: 8-222-2

-EPA 608/8080 (PCBs only)-	,	Analyzed 2/6/89
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254 Aroclor - 1260	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <0.05 mg/kg ND <0.05 mg/kg ND <0.05 mg/kg ND <0.05 mg/kg ND <0.05 mg/kg 0.16 mg/kg ND <0.05 mg/kg ND <0.05 mg/kg

Reviewed

2810 Bunsen Avenue • Ventura, CA 93003 (805) 650-0546 • (800) LAB-1-CRL FAX: (805) 648-2755

Sample #: 9027115703 Received: 01/27/89

Type: _Solid 4

Sampling Date & Time: 01/25/89, ****

Method: Not Specified

I.D.: 8-221-1

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed	===UNIT=== 2/6/89	===MDL====
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <10 ND <10 ND <10 ND <10 400 ND <10	mg/kg mg/kg mg/kg mg/kg	
Aroclor - 1260	EPA 608/8080	ND <10		

Sample #: 9027115704

Received: 01/27/89

Type: Solid 3

Collector: Client

Sampling Date & Time: 01/25/89, ****

Method: Not Specified

I.D.: 8-221-2

-EPA 608/8080 (PCBs only)-		Analyzed 2/2/89
Aroclor - 1016	EPA 608/8080	ND <0.05 mg/kg
Aroclor - 1221	EPA 608/8080	ND <0.05 mg/kg
Aroclor - 1232	EPA 608/8080	ND <0.05 mg/kg
Aroclor - 1242	EPA 608/8080	ND <0.05 mg/kg
Aroclor - 1248	EPA 608/8080	0.40 mg/kg
Aroclor - 1254	EPA 608/8080	ND <0.05 mg/kg
Aroclor - 1260	EPA 608/8080	ND <0.05 mg/kg

Sample #: 9027115705

Received: 01/27/89

Type: Solid

Collector: Client

Sampling Date & Time: 01/25/89,

Method: Not Specified

I.D.: 8-223-1

-EPA 608/8080 (PCBs only)-

Analyzed 2/2/89

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======CONSTITUENT=======	====METHOD====	==RESULT== ===UNIT===	===MDL====
Aroclor - 1016	EPA 608/8080	ND <0.1 mg/kg	
Aroclor - 1221	EPA 608/8080	ND <0.1 mg/kg	
Aroclor - 1232	EPA 608/8080	ND <0.1 mg/kg	
Aroclor - 1242	EPA 608/8080	ND <0.1 mg/kg	
Aroclor - 1248	EPA 608/8080	0.9 mg/kg	•
Aroclor - 1254	EPA 608/8080	ND <0.1 mg/kg	
Aroclor - 1260	EPA 608/8080	ND <0.1 mg/kg	

Sample #: 9027115706

Received: 01/27/89

Type: Solid /

Collector: Client

Sampling Date & Time: 01/25/89,

Method: Not Specified

I.D.: 8-223-2

-EPA 608/8080 (PCBs only)-		Analyzed 2/2/89
Aroclor - 1016 Aroclor - 1221	EPA 608/8080 EPA 608/8080	ND <0.1 mg/kg
Aroclor - 1232	EPA 608/8080	ND <0.1 mg/kg ND <0.1 mg/kg
Aroclor - 1242 Aroclor - 1248	EPA 608/8080 EPA 608/8080	ND <0.1 mg/kg 9.6 mg/kg
Aroclor - 1254 Aroclor - 1260	EPA 608/8080 EPA 608/8080	ND <0.1 mg/kg ND <0.1 mg/kg

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

02/06/89

Attn: Anne Burke 714/666/1120

Project- ITT Bldg. #8

Sample #: 9027124301 Received: 01/27/89

Collector: Client

Sampling Date & Time: 01/25/89, ****

Type: Solid /

Method: Not Specified

I.D.: 8-224-1

CONSTITUENT===================================		==RESULT== Analyzed	===UNIT=== 2/6/89	===MDL====
Aroclor - 1016	EPA 608/8080	ND <0.1	ma/lea	·
Aroclor - 1221	EPA 608/8080		mg/kg mg/kg .	
Aroclor - 1232	EPA 608/8080	ND <0.1		
Aroclor - 1242	EPA 608/8080	ND <0.1		
Aroclor - 1248	EPA 608/8080	1.1		
Aroclor - 1254	EPA 608/8080	ND <0.1		
Aroclor - 1260	EPA 608/8080	ND <0.1		
	•			

Sample #: 9027124302

Collector: Client

Received: 01/27/89

Sampling Date & Time: 01/25/89, ***

Type: Solid

Method: Not Specified

I.D.: 8-224-2

-EPA 608/8080 (PCBs only)-		Analyzed 2/6/89
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <0.05 mg/kg ND <0.05 mg/kg ND <0.05 mg/kg ND <0.05 mg/kg ND <0.05 mg/kg
Aroclor - 1254 Aroclor - 1260	EPA 608/8080 EPA 608/8080	ND <0.05 mg/kg ND <0.05 mg/kg

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#### LABORATORY REPORT

TO

Enseco-CRL

7440 Lincoln Way

Garden Grove, CA 92641

ATTN: Mr. Kevin Dodds

PROJECT:

A.L. Burke

ANALYBIS NO. :

DATE SAMPLED:

DATE REC'D:

BATCH: MATRIX: N042089-3/12

1/13-2/28/89

04/20/89

N685

Extract

Sample Identification: 910824-0105

Units: mg/kg

Test: Polychlorinated Biphenyls (EPA 8080)

Parameter	Result	Blank	Detection <u>Limit</u>
Aroclor-1016	· ND*	ND	0.8
Aroclor-1221	ND	· ND	0.8
Aroclor-1232	ND	ND	0.8
Aroclor-1242	ND	ND	0.8
Aroclor-1248	6.	ND	0.8
Arocler-1254	ND -	ND	0.8
Aroclor-1260	ND	ND	0.8

Note: Higher detection limits due to sample matrix

*ND - not detected at the detection limit expressed within the parentheses.

 $Cz^{\frac{1}{2}}$ 

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#### LABORATORY REPORT

TO:

Enseco-CRL

7440 Lincoln Way

Garden Grove, CA 92641

ATTN: Mr. Kevin Dodds

PROJECT:

A.L. Burke

ANALYSIS NO.:

DATE SAMPLED:

DATE REC'D:

BATCH: MATRIX: N042089-3/12

1/13-2/28/89

04/20/89 N685

Extract

Brand Land

Sample Identification: MSD-03

Units: mg/kg

Test: Polychlorinated Biphenyls (EPA 8080)

Parameter	Result	Blank	Detection <u>Limit</u>
Aroclor-1016	ND*	ND	1.6
Aroclor-1221	ND	ND	1.6
Aroclor-1232	ND	ND	1.6
Aroclor-1242	, ND	ND	1.6
Aroclor-1248	5.	ND	1.6
Aroclor-1254	ND .	ND .	1.6
Aroclor-1260	ND	ND	1.6

Note: Higher detection limits due to sample matrix

*ND - not detected at the detection limit expressed within the parentheses.

63

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#### LABORATORY REPORT

TD: Enseco-CRL 7440 Lincoln Way Garden Grove, CA 92641

ATTN: Mr. Kevin Dodds
PROJECT:
A.L. Burke

ANALYSIS NO.: DATE SAMPLED: DATE REC'D: BATCH: MATRIX: N042089-3/12 1/13-2/28/89 04/20/89 N685 Extract

Sample Identification: 0419A-RB

Units: mg/kg

est: Polychlorinated Biphenyls (EPA 8080)

		and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	Detection
Parameter	Result	Blank	Limit
Aroclor-1016	ND*	ND	0.008
Aroclor-1221	ND	ND	0.008
Aroclor-1232	ND ·	ND	0.008
Aroclor-1242	ND	ND	0.008
Aroclor-1248	ND	ND ·	0.008
Aroclor-1254	ND	ND	0.008
Aroclor-1260	ND	ND	0.008

Note: Higher detection limits due to sample matrix

*ND - not detected at the detection limit expressed within the parentheses.

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

02/20/89

Attn: Anne Burke 714/666/1120

Project- ITT Building #8

Sample #: 9033094201

Received: 02/02/89

Type: Solid /

Collector: Client

Sampling Date & Time: 01/30/89, ****

Method: Grab 7

I.D.: 8-225

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== ===UNIT=== Analyzed 2/16/89	===MDL====
Aroclor - 1016 Aroclor - 1221 Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254 Aroclor - 1260	EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080 EPA 608/8080	ND <100 mg/kg ND <100 mg/kg ND <100 mg/kg ND <100 mg/kg 1100 mg/kg ND <100 mg/kg ND <100 mg/kg	

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A.L. Burke Engineers 1162 North Kramer Pl. Anaheim, CA. 92806 FAX # (714) 666-8349

02/20/89

Attn: Anne Burke 714/666/1120

Project- ITT Building #8

Sample #: 9033094202 Received: 02/02/89

Type: Solid

Collector: Client

Sampling Date & Time: 01/30/89, ****

Method: Grab

I.D.: 8-226

-EPA 608/8080 (PCBs only)-	====METHOD====	==RESULT== Analyzed		===MDL====
Aroclor - 1016	EPA 608/8080	ND <100	mø/ko	
Aroclor - 1221	EPA 608/8080	ND <100	• •	•
Aroclor - 1232	EPA 608/8080	ND <100		
Aroclor - 1242	EPA 608/8080	ND <100	. • •	
Aroclor - 1248	EPA 608/8080		mg/kg	
Aroclor - 1254	EPA 608/8080	ND <100		•
Aroclor - 1260	EPA 608/8080	ND <100		



7440 Lincoln Way • Garden Grove, CA 92641 (714) 898-6370 • (213) 598-0458 • (800) LAB-1-CRL FAX: (714) 891-5917

February 22, 1989

A.L. BURKE ENGINEERS 1162 North Kraemer Place Anaheim, CA 92806 ATTN: Ms. Anne Burke

ANALYSIS NO.: G-8904110-001/002

ANALYSES: EPA Method 608 DATE SAMPLED: 9-FEB-1989

DATE SAMPLE REC'D: 10-FEB-1989

PROJECT: ITT Bldg. 8

Enclosed with this letter is the report on the chemical and physical analyses on the samples from ANALYSIS NO: G-8904110-001/002 shown above.

The samples were received by CRL in a chilled state, intact, and with the chain-of-custody record attached.

Please note that ND( ) means not detected at the detection limit expressed within the parentheses.

REVIEWED.

Flexel Kenble
APPROVED

7440 Lincoln Way • Garden Grove, CA 92641 (714) 898-6370 • (213) 598-0458 • (800) LAB-1-CRL

FAX: (714) 891-5917

Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8904110-001 Date Sampled: 9-FEB-1989

Date Sample Rec'd: 10-FEB-1989
Date Analyzed: 17-FEB-1989
Date Extracted: 10-FEB-1989

Sample Type: LIQUID

Project: ITT BLDG. 8
Sample ID: 8-227 BAKER TANK #2

Organochlorine Pesticides & PCB'S (EPA 608)

Units: ug/L

Analysis	Result	Blank	Detection Limit
alpha-BHC	ND	ND	1
beta-BHC	ND	ND	ī
delta-BHC	ND	ND	i
Lindane	ND	ND	· î
Heptachlor	ND	ND	î.
Aldrin	ND	ND	î ·
Heptachlor epoxide	ND	ND	ī
Endosulfan I	ND	ND	ī
Dieldrin	ND	ND	. 2
4,4'-DDE	ND	ND	2
Endrin	ND	ND	2
Endosulfan II	ND.	ND	2 2 2 2 2 2 2 2 2
4,4'-DDD	ND	ND	$\bar{2}$
Endrin aldehyde	ND	. ND	2
Endosulfan sulfate	ND	ND	2
4,4'-DDT	ND	ND	2
Methoxychlor	ND -	ND -	10
Endrin ketone	ИИ	ND	2
Technical Chlordane	ND	ND	10
Toxaphene	ND	ND	25
Aroclor-1016	ND	ND	10
Aroclor-1221	ND	ND	10
Aroclor-1232	ND	ND	10
Aroclor-1242	ND	ND	10
Aroclor-1248	35.	ND	10
Aroclor-1254	ND	ND	10
Aroclor-1260	ND	ND	10

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Laboratory Report

A.L. BURKE ENGINEERS
1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8904110-002 Date Sampled: 9-FEB-1989 Date Sample Rec'd: 10-FEB-1989

Date Analyzed: 17-FEB-1989
Date Extracted: 10-FEB-1989
Sample Type: LIQUID

Project: ITT BLDG. 8

Sample ID: 8-228 SUMP @ EAST ROOM

Organochlorine Pesticides & PCB'S (EPA 608)

Units: ug/L

Analysis	Result	Blank	Detection Limit
alpha-BHC	, ND	ND	0.3
beta-BHC	ND `	ND	0.3
delta-BHC	ND	ND	0.3
Lindane	ND	ND	0.3
Heptachlor	ND	ND	0.3
Aldrin	ND	ND	0.3
Heptachlor epoxide	ND	ND	0.3
Endosulfan I	ND	ND	0.3
Dieldrin	ND	ND	0.6
4,4'-DDE	ND	ND	0.6
Endrin	ND	ND	
Endosulfan II	ND	ND	0.6
4,4'-DDD	ND	ND	0.6
Endrin aldehyde	ND	ND	0.6
Endosulfan sulfate	ND		0.6
4,4'-DDT	ND	ND	0.6
Methoxychlor	ND	ND ND	0.6
Endrin ketone	ND		3.0
Technical Chlordane	ND	ND	0.6
Toxaphene	ND	ND	3.
Aroclor-1016	ND ND	ND	6
Aroclor-1221		ND	3.
Aroclor-1232	ND	ND	3.
Aroclor-1242	ND	ND	3. 3. 3.
Aroclor-1248	ND	ND	
Aroclor-1254	6.	ND	3.
Aroclor-1260	ND	ND	3.
	ND	ND	3.



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FAX: (714) 891-5917

Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE ANAHEIM, CA 92806

ATTN: Ms. Anne Burke Project: ITT BLDG. 8 Analysis No.: G-8904110-001/002

Date Sampled: 9-FEB-1989

Date Sample Rec'd: 10-FEB-1989

Sample Type: LIQUID

QA/QC Summary

Date	Parameter (Method)	Average Matrix Spike Recovery	Acceptable	Relative Percent Difference	Acceptable Range
10-FEB-1989	4,4'-DDT (EPA 608)	83	38-127	2.	27
10-FEB-1989	ALDRIN (EPA 608)	68	40-120	2.	22
10-FEB-1989	DIELDRIN (EPA 608)	74	52-126	Ō.	18
10-FEB-1989	ENDRIN (EPA 608)	83	56-121	1.	21
10-FEB-1989	HEPTACHLOR (EPA 608)	67	40-131	5.	20
10-FEB-1989	LINDANE (EPA 608)	69	56-123	2.	15

# BROWN AND CALDWELL LABORATORIES

ANALYTICAL REPORT

1200 EAST PACIFICO AVENUE, ANAHEIM, CA 92805 (714) 978-0113

FAX: (714) 978-9284

LOG NO: A89-03-110

Received: 17 MAR 89 Reported: 21 MAR 89

Marol Robinson A. L. Burke Engineers 1162 N. Kraemer Place Anaheim, CA 92806

Project: 8707-0006

LOG NO SAMPL	REPORT	OF ANALYTICAL RES	ULTS		Fage 1
03-110-1 8-230 03-110-2 8-231 03-110-3 8-232	East Room East Room East Room	NAQUEOUS SAMPLES		D.	ATE SAMPLEI
03-110-4 8-233 PARAMETER	East Room			•	17 MAR 89 17 MAR 89 17 MAR 89
Polychlorinated Bi	phenyls	03-110-1	03-110-2	03-110-3	03-110-4
Date Extracted Date Analyzed Dilution Factor, Aroclor 1016, mg/l Aroclor 1221, mg/l Aroclor 1232, mg/l Aroclor 1242, mg/k Aroclor 1248, mg/k Aroclor 1254, mg/k Aroclor 1260, mg/k Aroclor 1262, mg/k Total PCB's, mg/kg	Times 1 kg kg kg kg kg kg kg kg kg kg kg kg kg	03/17/89 03/21/89 1000 <100 <100 <100 <100 1100 <100 <10	03/17/89 03/21/89 1000 <100 <100 <100 <100 2300 <100 <100 <100	03/17/89 03/21/89 100 <10 <10 <10 <10 <10 <10 <10	03/17/89 03/21/89 10 <1 <1 <1 <1 6.5 <1 <1

Values preceded by a "<" indicate detection limits for that parameter.

udyth A. Jones, Laboratory Manager



7440 Lincoln Way • Garden Grove, CA 92641 (714) 898-6370 • (213) 598-0458 • (800) LAB-1-CRL FAX: (714) 891-5917 # 42 -JFR

April 15, 1989

A.L. BURKE ENGINEERS 1162 North Kraemer Place Anaheim, CA 92806 ATTN: Ms. Anne Burke Analysis No: G-8909708-001 Date Sampled: 7-APR-1989 Date Sample Rec'd: 7-APR-1989

Project: ITT/#8707-0006

Enclosed with this letter is the report on the chemical and physical analyses on the sample from ANALYSIS: NO: G-8909708-001 shown above.

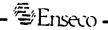
The sample was received by CRL in a chilled state, intact and with the chain-of-custody record attached.

Please note that ND( ) means not detected at the detection limit expressed within the parentheses.

Preliminary data was provided on April 14, 1989 at 7:50 A.M. to Ms. Marrol Robinson.

REVEIWED.

Crol Tynle



7440 Lincoln Way • Garden Grove, CA 92641 (714) 898-6370 • (213) 598-0458 • (800) LAB-1-CRL

FAX: (714) 891-5917

Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806

ATTN: MS. ANNE BURKE

Analysis No.: G-8909708-001/001

Date Sampled: 7-APR-1989

Date Sample Rec'd: 7-APR-1989

Date Analyzed: 13-APR-1989

Sample Type: SLUDGE #

Project: ITT (#8707-0006)

TPH

Sample ID

Recoverable

mg/kg

EPA 418.1

8-234 SLUDGE FROM

410,000.

TRENCH PIPE

Blank

ND(1.000)



7440 Lincoln Way • Garden Grove, CA 92641 (714) 898-6370 • (213) 598-0458 • (800) LAB-1-CRL FAX: (714) 891-5917

#### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806

ATTN: MS. ANNE BURKE

Analysis No.: G-8909708-002/002

Date Sampled: 7-APR-1989

Date Sample Rec'd: 7-APR-1989 Date Analyzed: 13-APR-1989

Sample Type: SOLID

Project: ITT (#8707-0006)

Sample ID

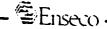
TPH Recoverable mg/kg EPA 418.1

8-235 SOIL FROM

78,000?

TRENCH " Blank

ND(1.000)



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FAX: (714) 891-5917

Parameter (Method)

Laboratory Report

A.L. BURKE ENGINEERS
1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: MS. ANNE BURKE

Project: ITT (#8707-0006)

Analysis No.: G-8909708-002/002 Date Sampled: 7-APR-1989

Date Sample Rec'd, 7-APR-1989

Sample Type: SOLID

QA/QC Summary

Average Relative
Spike Acceptable Percent
Recovery Range Difference

Spike Acceptable Percent Acceptable Recovery Range Difference Range

13-APR-1989 TPH RECOVERABLE (EPA 115 70-117 11. 15 418.1)



### **BROWN AND CALDWELL LABORATORIES**

**ANALYTICAL REPORT** 

1200 EAST PACIFICO AVENUE, ANAHEIM, CA 92805 (714) 978-0113

FAX: (714) 978-9284

LOG NO: A89-04-033

Received: 07 APR 89 Reported: 10 APR 89

Ms. Marol Robinson A.L. Burke Engineers, Inc. 1162 North Kraemer Place Anaheim, California 92806

Project: 87-07-0006

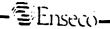
#### REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES		DATE SAMPLED
04-033-1	8-236 Sand Under Dock		06 APR 89
PARAMETER		04-033-1	
Polychlori	nated Biphenyls	•••••	
Date Extr	• •	04/07/89	
Date Anal	.yzed	04/10/89	
Dilution	Factor, Times 1	1	
Aroclor 1	016, mg/kg	<1	
Aroclor 1	.221, mg/kg	<1	
Aroclor 1	232, mg/kg	<1	
Aroclor 1	242, mg/kg	<1	•
Aroclor 1	248, mg/kg	<1	
Aroclor 1	.254, mg/kg	<1	
Aroclor 1	.260, mg/kg	<1	
Aroclor 1	262, mg/kg	<1	
	J's, mg/kg	· <1	

Values preceded by a "<" indicate detection limits for that parameter.

Judith A. Jones, Laboratory Manager



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Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke

Analysis No.: G-8905934-001 Date Sampled: 28-FEB-1989 Date Sample Rec'd: 28-FEB-1989

Date Analyzed: 8-MAR-1989 Date Extracted: 2-MAR-1989

Sample Type: SOLID

Project: (87-07-0006)

Sample ID: 8-208-6

Polychlorinated Biphenyls (EPA 8080)

Units: mg/kg

	Analysis	Result	Blank	Detection Limit
Ar Ar Ar Ar	oclor-1016 oclor-1221 oclor-1232 oclor-1242 oclor-1248 oclor-1254 oclor-1260	ND ND ND ND 3. ND	ND ND ND ND ND ND	0.4 0.4 0.4 0.4 0.4 0.4



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Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8905934-002 Date Sampled: 28-FEB-1989

Date Sample Rec'd: 28-FEB-1989

Date Analyzed: 8-MAR-1989 Date Extracted: 2-MAR-1989

Sample Type: SOLID

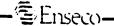
Project: (87-07-0006)

Sample ID: 8-208-7

Polychlorinated Biphenyls (EPA 8080)

Units: mg/kg

Analysis	Result	Blank	Detection Limit
Aroclor-1016			•••••
,	ND	ND	.8
Aroclor-1221	ND	ND	. 8
Aroclor-1232	ND	ND.	8
Aroclor-1242	ND	ND	8
Aroclor-1248	85.	ND	
Aroclor-1254	ND	ND	8
Aroclor-1260	ND	ND	8



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# Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke

Analysis No.: G-8905934-003 Date Sampled: 28-FEB-1989

Date Sample Rec'd: 28-FEB-1989

Date Analyzed: 8-MAR-1989 Date Extracted: 2-MAR-1989

Sample Type: SOLID

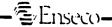
Project: (87-07-0006)

Sample ID: 8-209-6

Polychlorinated Biphenyls (EPA 8080)

Units: mg/kg

Result	Blank	Detection Limit
ND ND ND ND O.1 ND	ND ND ND ND ND	0.04 0.04 0.04 0.04 0.04 0.04
	ND ND ND ND O.1	ND ND ND ND ND ND ND ND ND ND ND ND ND N



74-10 Lincoln Way • Garden Grove, CA 926-11 (714) 898-6370 • (213) 598-0458 • (800) LAB-1-CRL FAX: (714) 891-5917

Laboratory Report

A.L. BURKE ENGINEERS

1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Analysis No.: G-8905934-004 Date Sampled: 28-FEB-1989

Date Sample Rec'd: 28-FEB-1989 Date Analyzed: 8-MAR-1989

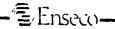
Date Extracted: 2-MAR-1989
Sample Type: SOLID

Project: (87-07-0006) Sample ID: 8-209-7

Polychlorinated Biphenyls (EPA 8080)

Units: mg/kg

Analysis	Result	Blank	Detection Limit
Aroclor-1016	ND	ND	0.2
Aroclor-1221	ND	ND	0.2
Aroclor-1232	ND	ND	0.2
Aroclor-1242	ND -	ND	0.2
Aroclor-1248	0.9	ND	0.2
Aroclor-1254	ND	ND	0.2
Aroclor-1260	ND	ND	0.2



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Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806

ATTN: Ms. Anne Burke

Analysis No.: G-8905934-005 Date Sampled: 28-FEB-1989

Date Sample Rec'd: 28-FEB-1989 Date Analyzed: 8-MAR-1989 Date Extracted:

2-MAR-1989 Sample Type: SOLID

Project: (87-07-0006)

Sample ID: 8-211-6

Polychlorinated Biphenyls (EPA 8080)

Units: mg/kg

Analysis	Result	Blank	Detection Limit
Aroclor-1016	ND	ND	15
Aroclor-1221	ND	ND	
Aroclor-1232	ND	ND ND	15
Aroclor-1242	ND		15
Aroclor-1248	900	ND	15
Aroclor-1254		ND	15
Aroclor-1260	ND	ND	15
MIDCIDI - 1200	ND	ND	15



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#### Laboratory Report

A.L. BURKE ENGINEERS 1162 NORTH KRAEMER PLACE

ANAHEIM, CA 92806. ATTN: Ms. Anne Burke Analysis No.: G-8905934-006 Date Sampled: 28-FEB-1989

Date Sample Rec'd: 28-FEB-1989 Date Analyzed: 8-MAR-1989

Date Extracted: 2-MAR-1989

Sample Type: SOLID #

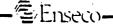
Project: (87-07-0006)

Sample ID: 8-211-7

Polychlorinated Biphenyls (EPA 8080)

Units: mg/kg

Analysis	Result	Blank	Detection Limit
Aroclor-1016			••••••
Aroclor-1221	ND	ND	8
Aroclor-1232	ND	ND -	. 8
<del></del>	ND	ND	8
Aroclor-1242	ND	ND	
Aroclor-1248	110	- · <del>-</del>	.8
Aroclor-1254		ND	8
Aroclor-1260	ND	ND	- 8
NIOCIOI-1200	ND	ND	Ř



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2-MAR-1989 AROCLOR-1260 (EPA 8080)

Parameter (Method)

Laboratory Report

A.L. BURKE ENGINEERS
1162 NORTH KRAEMER PLACE
ANAHEIM CA 92806

ANAHEIM, CA 92806 ATTN: Ms. Anne Burke Project: (87-07-0006)

Date

Analysis No.: G-8905934-001/006

Date Sampled: 28-FEB-1989

Date Sample Rec'd: 28-FEB-1989

Sample Type: SOLID

QA/QC Summary

Average
Matrix Relative
Spike Acceptable Percent Acceptable
Recovery Range Difference Range

7440 Lincoln Way . Garden Grove, CA 92641 (213) 598-0458 • (714) 898-6370 • (800) LAB-I-CRL FAX: (714) 891-5917

Enseco-CRL 7440 Lincoln Way Garden Grove, CA 92641

ATTN: Mr. Kevin Dodds

BATCH: ANALYSES:

NE79 PCB's

PROJECT: A.L. Burke

Enclosed with this letter is the report on the analyses performed on samples N041289-1/2.

The sample extracts were received by CRL intact and with the chain-of-custody record attached.

Please note that ND means not detected and DL means detection limit.

Stated below are the pertinent quality control data.

Matrix: Extract

QA/QC Summary

<u>Date</u>	Farameter (Method)	Average Spike <u>Recovery</u>	Acceptable <u>Range</u>	Relative Percent <u>Difference</u>	Acceptable <u>Range</u>
04/04	Aroclor-1260 (EFA 8080)	98.	59-115	2 ·	23

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#### LABORATORY REPORT

TO:

Enseco-CRL

7440 Lincoln Way

Garden Grove, CA

ATTN: Mr. Kevin Dodds

PROJECT:

A.L. Burke

ANALYSIS NO .:

DATE SAMPLED:

DATE REC'D:

BATCH:

MATRIX:

N041289-1/4

2/28/89-3/27/30/89

04/12/89

N679

Extract

Sample Identification: Reagent Blank (04030)

Units: mg/kg

Folychlorinated Biphenyls (EPA 8080) Test:

<u>Paramete</u> r	Result	Detection <u>Limit</u>
Aroclor-1016	ND*	0.00B
Aroclor-1221	ND	0.008
Aroclor-1232	ND	0.008
Aroclor-1242	ND	0.008
Aroclor-1248	NĎ	0.008
Aroclor-1254	ND .	
Aroclor-1260	ND	0.008 0.008

*ND - not detected at the detection limit expressed within the parentheses.

#### /Enseco -

#### CRL Environmental - Mobile Laboratories

7440 Lincoln Way • Garden Grove, CA 92641 (213) 598-0458 • (714) 898-6370 • (800) LAB-I-CRL FAX: (714) 891-5917

#### LABORATORY REPORT

TO:

Enseco-CRL

7440 Lincoln Way

Garden Grove, CA 92641

ATTN: Mr. Kevin Dodds

PROJECT:

A.L. Burke

ANALYSIS NO .: DATE SAMPLED:

DATE REC'D:

BATCH: MATRIX: N041289-1/4

2/28/89-3/27/30/89

04/12/89

N679 *Extract A

Sample Identification: 908924-001

Units: mg/kg

Test: Polychlorinated Biphenyls (EPA 8080)

<u>Paramete</u> r	Result	<u>Bl ank</u>	Detection <u>Limit</u>
Aroclor-1016	ND*	ND	1.6
Aroclor-1221	ND	ND	1.6
Aroclor-1232	ND	ND	1.6
Aroclor-1242	ND	ND	1.6
Aroclor-1248	19.	ND	1.6
Aroclor-1254	ND	ND	
Aroclor-1260	ND	ND	1.6 1.6

Note: Higher detection limits due to sample matrix

*ND - not detected at the detection limit expressed within the parentheses.

7440 Lincoln Way . Garden Grove, CA 92641 (213) 598-0458 • (714) 898-6370 • (800) LAB-1-CRL FAX: (714) 891-5917

#### LABORATORY REPORT

TO:

Enseco-CRL

7440 Lincoln Way

Garden Grove, CA 92641

ATTN: Mr. Kevin Dodds

PROJECT:

A.L. Burke

ANALYSIS NO. :

DATE SAMPLED:

DATE REC'D:

BATCH MATRIX: N041289-1/4

2/28/89-3/27/30/89

04/12/89

N679

-Extract'

Sample Identification: 908924-002

Units: mg/kg

Tenst: Polychlorinated Biphenyls (EPA 8080)

Paraveter	Result	Blank	Detection <u>Limit</u>
Aroclor-1016	ND*	ND	6.4
Aroclor-1221	ND	ND	6.4
Aroclor-1232	ND	ND	6.4
Aroclor-1242	ND	ND	6.4
Aroclor-1248	90.	ND	6.4
Aroclor-1254	ND	ND	6.4
Aroclor-1260	ND	ND	6.4

Note: Higher detection limits due to sample matrix

*ND - not detected at the detection limit expressed within the parentheses.